

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: September 24, 2004, 11:55:08 ; Search time 756.953 Seconds  
(without alignments)  
9943.172 Million cell updates/sec

Title: US-09-737-297-1  
Perfect score: 1486  
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Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 3337386 seqs, 2532474682 residues

Total number of hits satisfying chosen parameters: 6674772

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA:\*

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- 2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq.\*
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- 19: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	1251.8	84.2	1481	9	US-09-737-297-4
3	1131	76.1	1501	9	US-09-731-592-1
4	1131	76.1	1501	9	US-09-745-476-1
5	1131	76.1	1501	9	US-09-821-016-5
6	1131	76.1	1501	9	US-09-748-205-1
7	1131	76.1	1501	9	US-09-793-920A-1
8	1131	76.1	1501	9	US-09-951-720-1
9	1131	76.1	1501	10	US-09-791-610-1
10	1131	76.1	1501	13	US-10-649-646-1
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12	1131	76.1	1501	15	US-10-266-787-5
13	1131	76.1	1501	15	US-10-252-518-5
14	1131	76.1	1501	15	US-10-105-305-1

15	1131	76.1	1501	15	US-10-133-404A-1	Sequence 1, Appli
16	1131	76.1	1501	15	US-10-242-696-1	Sequence 1, Appli
17	1131	76.1	1501	16	US-10-411-319-1	Sequence 1, Appli
18	1131	76.1	1501	17	US-10-603-996-1	Sequence 1, Appli
19	1114.8	75.0	1424	15	US-10-007-527A-12	Sequence 12, Appli
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41	1054.4	71.0	1429	9	US-09-334-868-81	Sequence 81, Appli
42	1053.6	70.9	1549	9	US-09-912-020-89	Sequence 89, Appli
43	1053.6	70.9	1549	9	US-09-912-020-242	Sequence 242, App
44	1053.6	70.9	1549	9	US-09-912-020-402	Sequence 402, App
45	1052.4	70.8	269223	13	US-10-672-787-41	Sequence 41, Appli

## ALIGNMENTS

## RESULT 1

US-09-737-297-1  
; Sequence 1, Application US/09737297  
; Patent No. US20020072108A1  
; GENERAL INFORMATION:  
; APPLICANT: Berry, Mark  
; APPLICANT: Griffiths, Allen  
; APPLICANT: Hall, Philip  
; APPLICANT: Laybourne-Parry, Johanna  
; APPLICANT: Mills, Sarah  
; TITLE OF INVENTION: Processes and Organisms for the Production of Antifreeze Proteins  
; FILE REFERENCE: F3247  
; CURRENT APPLICATION NUMBER: US/09/737,297  
; CURRENT FILING DATE: 2000-12-15  
; PRIOR APPLICATION NUMBER: GB 9929696.4  
; PRIOR FILING DATE: 1999-12-15  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1  
; LENGTH: 1486  
; TYPE: DNA  
; ORGANISM: Marinomonas protea  
US-09-737-297-1

Query Match	100.0%	Score 1486	DB 9	Length 1486
Best Local Similarity	100.0%	Pred. No. 0		
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Qy	61	GGAGCTTGCTTCCTGCTGACGAGCGGCGGAGCGGTGAGTAAACCGGTAGGATATCGCTTAGT	120	
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Qy	121	AGAGGGGGACAACTGTGGAAACGATCTTAATACCGCATACGCCCTGAGGGGGAAAGGA	180	



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QY 121 AGAGGGGACAAATGTGGAAACGATCTAATACCGCATACGCCCTGAGGGGAAAGGA 180  
Db 140 AGTGGGGGACAAATGTGGAAACGATCTAATACCGCATACGCCCTGAGGGGAAAGGA 199  
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QY 361 CGAAGGCTTACCAAGCGGACGATCTCTAATCTGCTGAGAGGATGATCAGCCACACTG 420  
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QY 421 TCAGGGGTGAGGAGGTGATGATTAATAGCTTATCATCTGAGCTTAGCCCCAGAGA 480  
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QY 481 AGCAGCGCTAACTCTGTCAGCAGCGCGGTAAATACAGAGGCTGCAAGGCTTAATCGG 540  
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QY 541 AATTACTGCGGTAAAGCGCGGTAGGCTTGTGTAAGTGGATGTGAATCCAGGGC 600  
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QY 601 TCAACCTTGAATGGAACCGGATGATGATGATGATGATGATGATGATGATGATGATGAT 660  
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QY 661 TCCTGTGAGCGGTAAATGCGTAGATATAGGAAGGAACATCAGTGCAGGCGGACACC 720  
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RESULT 3  
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; Patent No. US20010021223A1  
; GENERAL INFORMATION:  
; APPLICANT: Canon Inc.  
; TITLE OF INVENTION: Polyhydroxyalkanoate containing 3-hydroxybenzoylalkanoic acid as  
; FILE REFERENCE: 4396021  
; CURRENT APPLICATION NUMBER: US/09/791,592  
; CURRENT FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 1  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii 161 strain.  
US-09-791-592-1

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Best Local Similarity 88.2%; Pred. No. 6,8e-299;  
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;  
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QY 553 TAAAGCGCGGTAGTGTGTTTGTAAAGTCGATGTGAATCCAGGGCTCAACCTTTGGAA 612  
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DB 896 CGGCAAGCGGTGGAGCATGTGTTTAAATTCGAAGCAACGCGAAGAACCTTTACCGGCC 955  
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QY 1451 ACGGAGTGTCAATGACTGGGTTTGAAGTCTAC 1483

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RESULT 4  
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; Sequence 1, Application US/09745476  
; Patent No. US20010029039A1  
; GENERAL INFORMATION:  
; APPLICANT: CANON INC.  
; TITLE OF INVENTION: Preparation of Poly-hydroxyalkanoic Acid  
; FILE REFERENCE: 4351008  
; CURRENT APPLICATION NUMBER: US/09/745,476  
; CURRENT FILING DATE: 2000-12-26  
; NUMBER OF SEQ ID NOS: 1  
; SOFTWARE: Microsoft Word  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii P161 ; FERM P-17445  
US-09-745-476-1  
Query Match 76.1%; Score 1131; DB 9; Length 1501;  
Best Local Similarity 88.2%; Pred. No. 6.8e-299;  
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;  
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DB 1 TGAACGCTGGCGGAGGCTTAAACACATGCAAGTCGAGCGG-ATCACGGGAGCTTGCTCC 58  
QY 73 TGTGACAGCGGCGGACGGGTGAGTAACGGGTAGGAATCTGCTCTAGTAGAGGGGACAA 132  
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QY 133 CATGTGGAACGCGATGCTAATACCGCATACGCCCTGAGGGGAAAGAGGGGACTTTCG 192  
DB 118 CGTCTGAAAGGAGCGCTAATACCGCATACGCTCTACGGGAAAGAGGGGA--CCTTC 175  
QY 193 GAGCCTTCGCTATTAGATGAGCCTGCTGAGATTAGCTAGTTGGTAGGGTAAAGGCCTA 252  
DB 176 GGGCCTTCGCTATCAGATGAGCCTAGGTTCGATTAGTTGGTAGGTAATGGCTCA 235  
QY 253 CCAAGCGACGATCTCTAATCTGAGAGATGACCACTGACACTGAGGACTGAGACAC 312  
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QY 313 GGCACGACTCTACGGGCGGACGAGTGGGGAATATTGGCAATGGGCGCAAGCTGAT 372  
DB 296 GGTCCAGACTCTACGGGAGGCGAGTGGGGAATATTGGCAATGGGCGCAAGCTGAT 355  
QY 373 CCAGCCATGCCGCGTGTGTGAAGAGGCGCTTAGGCTTGTAAAGCACTTTTCAGGGGTGAGG 432  
DB 356 CCAGCCATGCCGCGTGTGTGAAGAGGCTTTCGGATTGTAAAGCACTTTAAGTTGGAGG 415  
QY 433 AAGGTGATAGGTAAATACGTTATCATCTTGACGTTAGCCCGAGAAAGCAACCGGCTAA 492  
DB 416 AAGGCAATTAACCTAATACGTTAGTGTGTTTGAAGTTCGCGATTTAAGTTGGAGG 475  
QY 493 CTCTGTGCCAGCAGCGCGGTGAATACAGAGGGTGAAGGTTAAATCGGAATTTACTGGCG 552  
DB 476 CTCTGTGCCAGCAGCGCGGTGAATACAGAGGGTGAAGGTTAAATCGGAATTTACTGGCG 535  
QY 553 TAAAGCGCGGTAGTGTGTTTGTAAAGTCGATGTGAATCCAGGGCTCAACCTTTGGAA 612  
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QY 613 TGGCAACCGATATCTGGCTAGCTAGATGTGTAGAGGGGTGGAATTTCTGTGTAGCG 672  
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1091 ACCCTTGTCTTATTTGCGCAGCAGCTAATGTTGGGAATTTTAAAGAGACTGCGGTGACA 1150
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1391 ACCATGGAGTGAATGTCCTCAGAGTAGCTAGCTAAACCTTCGGGAGTAGCGGTACC 1450
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RESULT 6
US-09-748-205-1
; Sequence 1, Application US/09748205
; Patent No. US200202253A1
; GENERAL INFORMATION:
; APPLICANT: Canon Inc.
; TITLE OF INVENTION: Polyhydroxyalkanoate its manufacturing method, and microorganism
; FILE REFERENCE: 4351009
; CURRENT APPLICATION NUMBER: US/09/748,205
; CURRENT FILING DATE: 2000-12-27
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain.
US-09-748-205-1

Query Match 76.1%; Score 1131; DB 9; Length 1501;
Best Local Similarity 88.2%; Pred. No. 6.8e-299;
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

QY 13 TGAACGCTGGCGCAGGCTTAAACATGCAAGTCAAGCTGAGCGGTAAACAGGAGCTTGCTCC 72
DB 1 TGAACGCTGGCGCAGGCTTAAACATGCAAGTCAAGCTGAGCGGTAAACAGGAGCTTGCTCC 58
QY 73 TGCTGACGAGCGCGGAGGCTGAGTGAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 132
DB 59 TGAATTC-AGCGGCGGAGGCTGAGTGAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 117
QY 133 CATGTGGAAACGCATCTAATACCGCATACGCTTACGCTGAGGAGGAGGAGGAGGAGCTTTCG 192
DB 118 CGTCTCGAAAGGAGCGCTAATACCGCATACGCTTACGCTGAGGAGGAGGAGGAGGAGGAG 175
QY 193 GAGCCTTCGCTATTAGTAGAGCCTCGGTGAGATTAAGTCAAGTCAAGTCAAGTCAAGTCAAG 252
DB 176 GGGCCTTCGCTATTAGTAGAGCCTCGGTGAGATTAAGTCAAGTCAAGTCAAGTCAAGTCAAG 235
QY 253 CCAAGGCGAGCTCTTAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 312
DB 236 CCAAGGCGAGCTCTTAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 295
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QY 313 GGGCCAGACTCCTACGGGAGGAGCAGCTGGGGAATATTGGCAATATGGCGCAAGCGCTGAT 372
DB 296 GGTCCAGACTCCTACGGGAGGAGCAGCTGGGGAATATTGGCAATATGGCGCAAGCGCTGAT 355
QY 373 CCAGCCATGCCCGCTGTGTGAAGAAGCCTTAGGGTTGTAAAGCACTTTACGGGGTGAAG 432
DB 356 CCAGCCATGCCCGCTGTGTGAAGAAGCCTTAGGGTTGTAAAGCACTTTACGGGGTGAAG 415
QY 433 AAGGCTGATAGGTTAATACGTTATCATCTTGAAGCTTACGCTTACGCTTACGCTTACGCTTAA 492
DB 416 AAGGCTAATACCTTAAATACGTTTGTGACGTTTACGCTTACGCTTACGCTTAA 475
QY 493 CTCTGTGCAGCAGCGCGCTTAATACAGAGGCTGCAAGCGTTAAATCGGAATTTACCTGGCG 552
DB 476 CTCTGTGCAGCAGCGCGCTTAATACAGAGGCTGCAAGCGTTAAATCGGAATTTACCTGGCG 535
QY 553 TAAAGCGCGCTAGTGGTGTGTTTAAAGTCGAGTGAATCCAGGGCTCAACCTTGAA 612
DB 536 TAAAGCGCGCTAGTGGTGTGTTTAAAGTCGAGTGAATCCAGGGCTCAACCTTGAA 595
QY 613 TGGCACCCGATACGCTAGCTAGTATGTTAGAGGGGTGTTGAAATTTCTGTCTAGCG 672
DB 596 CTGCATTCAGAACTGACAAAGCTAGAGTATGTTAGAGGGGTGTTGAAATTTCTGTCTAGCG 655
QY 673 GTGAAATCGCTAGATATAGGAAGCAATCAGTGGCGAAGCGCACACCTTGACTAATAC 732
DB 656 GTGAAATCGCTAGATATAGGAAGCAATCAGTGGCGAAGCGCACACCTTGACTAATAC 715
QY 733 TGACACTGAGGTGCGAAAGCGTGGGGAGCAACAGGATTAATACCTTGGTAGTCCAGCG 792
DB 716 TGACACTGAGGTGCGAAAGCGTGGGGAGCAACAGGATTAATACCTTGGTAGTCCAGCG 775
QY 793 CGTAAACGATGCTACTAGCGCTTGG--GTTGTAATGACTTAGTGGCGCAGCTAACGCAA 850
DB 776 CGTAAACGATGCTAACTAGCGCTTGGGAGCCTTGAAGCTTAAAGTGGCGAGCTAACGCA 835
QY 851 TAAGTAGACCCGCTGGGAGTACGGCGCAAGGTTTAAAACTCAATGAATTAAGCGGGGCG 910
DB 836 TAAGTAGACCCGCTGGGAGTACGGCGCAAGGTTTAAAACTCAATGAATTAAGCGGGGCG 895
QY 911 CCGCAAGCGGTGAGCATGTGTTTAAATTCGAAGCAACGCGAAGAACCTTACCTACTC 970
DB 896 CCGCAAGCGGTGAGCATGTGTTTAAATTCGAAGCAACGCGAAGAACCTTACCTACTC 955
QY 971 TTGACATCCAGAAACATTTTCAGAGATCAGATGTTGCTTCGGGAACCTGTGAGACAGGTG 1030
DB 956 TTGACATCCATGAACCTTTCCAGAGATGAGTGGTGGCTTCGGGAACCTGTGAGACAGGTG 1015
QY 1031 CTGCATGCTGCTGCTCAGCTCGTGTGTGAATGTTGGTTTAAAGTCCCGTAAACGAGCGCA 1090
DB 1016 CTGCATGCTGCTGCTCAGCTCGTGTGTGAATGTTGGTTTAAAGTCCCGTAAACGAGCGCA 1075
QY 1091 ACCCTTGTCTTATTTGCGCAGCATGTAATGTTGGGAATTTTAAAGAGAGACTGCGGTGACA 1150
DB 1076 ACCCTTGTCTTATTTGCGCAGCATGTAATGTTGGGAATTTTAAAGAGAGACTGCGGTGACA 1135
QY 1151 AACCGGAGGAGGTGGGAGCAGCTCAAGTCAATCATGCGCTTACGAGTAGGGCTACACA 1210
DB 1136 AACCGGAGGAGGTGGGAGCAGCTCAAGTCAATCATGCGCTTACGAGTAGGGCTACACA 1195
QY 1211 CGTGCTCAATGCGGTATACAGAGGCTGCAAGCTAGCAGTAGTACGAGGAATCCACAAA 1270
DB 1196 CGTGCTCAATGCGGTATACAGAGGCTGCAAGCTAGCAGTAGTACGAGGAATCCACAAA 1255
QY 1271 GTACGTCGTAGTCCGATGAGTCTGCAACTCGACTCCATGAAGTCGGAATCGTAGTA 1330
DB 1256 ACCGATCGTAGTCCGATGAGTCTGCAACTCGACTCCATGAAGTCGGAATCGTAGTA 1315
QY 1331 ATCGTGAATCAGAATGTCACGCTGAATACGTTCCCGGCTTTGTACACACCGCCGTCAC 1390
DB 1316 ATCGGGAATCAGAATGTCGCGTGAATACGTTCCCGGCTTTGTACACACCGCCGTCAC 1375
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Db 59 TGAATTC-AGCGCGGAGCGGGTGAAGTAATGCTAGGAATCTGCTGTAGTGGGGACAA 117  
 Qy 133 CATGTGGAACCGCTAATACCCATACCGCTGAGGGGGAAGGAGGGGACTCTTCG 192  
 Db 118 CGTCTGAAAGGAGCGCTAATACCCATACCGCTGAGGGGGAAGGAGGGGAA--CCTTC 175  
 Qy 193 GAGCCTTCGCTATTAGATGAGCCTCGCTGAGATTAGCTAGTTGGTGGGTAAGAGCCCTA 252  
 Db 176 GGGCCTTCGCTATTAGATGAGCCTCGCTGAGATTAGCTAGTTGGTGGGTAAGAGCCCTA 235  
 Qy 253 CCAAGGCGACCATCTCTAATCTGCTGAGAGATGACCAAGTACACTGGGACTGAGACAC 312  
 Db 236 CCAAGGCGACCATCTCTAATCTGCTGAGAGATGATCAGTCACTGGAATGAGACAC 295  
 Qy 313 GGGCCAGACTCTCTAAGGAGCAGCAGTGGGGAATTTGGACAAATGGCGGAAGCCCTGAT 372  
 Db 296 GGTTCAGACTCTCTAAGGAGCAGCAGTGGGGAATTTGGACAAATGGCGGAAGCCCTGAT 355  
 Qy 373 CCAAGCCTAGCCTGTGTGAAGAGGCTTTAGGGTTGTAAGCACTTTTCAGGGGTGAGG 432  
 Db 356 CCAAGCCTAGCCTGTGTGAAGAGGCTTTTCGGATTGTAAGCACTTTTAAGTTGGAGG 415  
 Qy 433 AAGGGTATAGTTAATACGTTATCATCTTGAAGTGTAGCCCGCAGAGCAACCGGCTAA 492  
 Db 416 AAGGGTATAGTTAATACGTTATCATCTTGAAGTGTAGCCCGCAGAGCAACCGGCTAA 475  
 Qy 493 CTCTGTGCGAGCAGCGGCTAATACAGAGGCTGCAAGCGTTAATCGGAATTAATCGGCG 552  
 Db 476 CTCTGTGCGAGCAGCGGCTAATACAGAGGCTGCAAGCGTTAATCGGAATTAATCGGCG 535  
 Qy 553 TAAAGCGCGGTAGGTGGTTTGAAGTGGATGTGAATCCAGGGCTCAACCTTGGAA 612  
 Db 536 TAAAGCGCGGTAGGTGGTTTGAAGTGGATGTGAATCCAGGGCTCAACCTTGGAA 595  
 Qy 613 TGGCACCGGATCTGCTAGCTAGATGTGTAGAGGGGTGTGAATTTCTCTGTGTAGCG 672  
 Db 596 CTGCAATTCAAACATGCAAGCTAGATGTGTAGAGGGGTGTGAATTTCTCTGTGTAGCG 655  
 Qy 673 GTGAATTCGCTAGATATAGGAAGCAATCATGTCGCAAGCGCACCCCTGGACTATAC 732  
 Db 656 GTGAATTCGCTAGATATAGGAAGCAATCATGTCGCAAGCGCACCCCTGGACTATAC 715  
 Qy 733 TGACACTGAGTGGGAAAGCGTGGGAGCAAAACAGGATTTAGATACCTGTGTAGTCCAGC 792  
 Db 716 TGACACTGAGTGGGAAAGCGTGGGAGCAAAACAGGATTTAGATACCTGTGTAGTCCAGC 775  
 Qy 793 CGTAAACGATGTCTACTAGCGGTGG--GTGTGAATGACTAGTGGGCGAGCTAACGCA 850  
 Db 776 CGTAAACGATGTCTACTAGCGGTGGGAGCCTTGAGCTCTTTAGTGGGCGAGCTAACGCA 835  
 Qy 851 TAAGTAGACCGCTGGGAGGTACGCGCGCAAGGTTTAAACTCAATCAATTTGACGGGGC 910  
 Db 836 TAAGTAGACCGCTGGGAGGTACGCGCGCAAGGTTTAAACTCAATCAATTTGACGGGGC 895  
 Qy 911 CCGCAAGCGGTGGAGCATGTGGTTTAAATTCGAAGCAACCGCAAGCACTTACTACTC 970  
 Db 896 CCGCAAGCGGTGGAGCATGTGGTTTAAATTCGAAGCAACCGCAAGCACTTACTACTC 955  
 Qy 971 TTGACATCCACAGAAATTTGAGAGATCAGATGGTGGGAACTGGGAACTGGAGACAGGTG 1030  
 Db 956 TTGACATCCACAGAAATTTGAGAGATCAGATGGTGGGAACTGGGAACTGGAGACAGGTG 1015  
 Qy 1031 CTGATGCGCTGCTGAGCTCGTGTGTAAGTGTGGGTTAAGTCCCGTAAAGAGGCA 1090  
 Db 1016 CTGATGCGCTGCTGAGCTCGTGTGTAAGTGTGGGTTAAGTCCCGTAAAGAGGCA 1075  
 Qy 1091 ACCCTTGTCTTATTGTCAGCAGCTAATGTGGGAACTTTAAGGAGACTGCGGTGACA 1150  
 Db 1076 ACCCTTGTCTTATTGTCAGCAGCTAATGTGGGAACTTTAAGGAGACTGCGGTGACA 1135  
 Qy 1151 AACCGGAGGAGGTGGGAGACAGCTCAAGTCAATGCGCCTTACGAGTAGGCTACACA 1210  
 Db 1136 AACCGGAGGAGGTGGGAGACAGCTCAAGTCAATGCGCCTTACGAGTAGGCTACACA 1195

Qy 1211 CGTCTACAAATGGCGTATACAGAGGCTGCAAGCTAGCGATAGTGAAGCAATCCACAAA 1270  
 Db 1196 CGTCTACAAATGGCGTATACAGAGGCTGCAAGCTAGCGATAGTGAAGCAATCCACAAA 1255  
 Qy 1271 GTACGTCTGCTAGTCCGGAATTGGAGTCTGCAACTCGACTCCATGAAGTCGGAATCGCTAGTA 1330  
 Db 1256 ACCATCGTAGTCCGGAATCGGATCGGAGTCTGCAACTCGACTCCGGAATCGCTAGTA 1315  
 Qy 1331 ATCGTAATCAAGATGTACGGTGAATACAGTTCGGGCGCTTTGTACACACCGCCCGCTCAC 1390  
 Db 1316 ATCGTAATCAAGATGTACGGTGAATACAGTTCGGGCGCTTTGTACACACCGCCCGCTCAC 1375  
 Qy 1391 ACCATGGGAGTGTGATTGCTCCAGAGTAGCTAGCTTAACTTCGGGATGGCGGTTACC 1450  
 Db 1376 ACCATGGGAGTGGGTTGACCCAGAGTAGCTAGCTTAACTTCGGGATGGCGGTTACC 1433  
 Qy 1451 ACCGAGTGGTCAATGACTGGGGTTGAAAGTCTAC 1483  
 Db 1434 ACCGAGTGGTCAATGACTGGGGTTGAAAGTCTAC 1466

RESULT 10

US-10-649-646-1  
 ; Sequence 1, Application US/10649646  
 ; Publication No. US20040067576A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Canon Inc.  
 ; TITLE OF INVENTION: Polyhydroxynate, Method For Production Thereof And Microorganisms  
 ; FILE REFERENCE: 03500.015001.2  
 ; CURRENT APPLICATION NUMBER: US/10/649,646  
 ; CURRENT FILING DATE: 2003-08-28  
 ; PRIOR APPLICATION NUMBER: JP 11-371863  
 ; PRIOR FILING DATE: 1999-12-27  
 ; PRIOR APPLICATION NUMBER: JP 2000-023078  
 ; PRIOR FILING DATE: 2000-01-31  
 ; PRIOR APPLICATION NUMBER: JP 2000-023080  
 ; PRIOR FILING DATE: 2000-01-31  
 ; PRIOR APPLICATION NUMBER: JP 2000-023083  
 ; PRIOR FILING DATE: 2000-01-31  
 ; PRIOR APPLICATION NUMBER: JP 2000-095011  
 ; PRIOR FILING DATE: 2000-03-30  
 ; PRIOR APPLICATION NUMBER: JP 2000-095012  
 ; PRIOR FILING DATE: 2000-03-30  
 ; PRIOR APPLICATION NUMBER: JP 2000-095013  
 ; PRIOR FILING DATE: 2000-03-30  
 ; PRIOR APPLICATION NUMBER: JP 2000-207089  
 ; PRIOR FILING DATE: 2000-07-07  
 ; PRIOR APPLICATION NUMBER: JP 2000-207091  
 ; PRIOR FILING DATE: 2000-07-07  
 ; PRIOR APPLICATION NUMBER: JP 2000-359789  
 ; PRIOR FILING DATE: 2000-11-27  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 1  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 1  
 ; LENGTH: 1501  
 ; TYPE: DNA  
 ; ORGANISM: Pseudomonas jessenii 161 strain  
 US-10-649-646-1

Query Match 76.1%; Score 1131; DB 13; Length 1501;  
 Best Local Similarity 88.2%; Pred. No. 6.8e-299;  
 Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;  
 Qy 13 TGAACGCTGCGCGCAGGCTTAAACACATCGCAAGTCGAGCGGTAAACAGGGAGCTTGTCTCC 72  
 Db 1 TGAACGCTGCGCGCAGGCTTAAACACATCGCAAGTCGAGCGGTAAACAGGGAGCTTGTCTCC 58  
 Qy 73 TGTGACGAGCGCGGACCGGTGAGTAAACGCTAGGAATCTGCTAGTAGTAGAGGGGACAA 132  
 Db 59 TGAATTC-AGCGCGGAGCGGTGAGTAACTGCTAGGAATCTGCTGTGTGGGGACAA 117



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QY 373 CCAGCCATGCCGCTGTGTGAAGAGGCTTAGGTTCTAAAGACATTTTCAGGGGTGAGG 432
Db 356 CCAGCCATGCCGCTGTGTGAAGAGGCTTCGCGATTGTAAGACATTTAAAGTTGGGAGG 415

QY 433 AAGGTTAGTAACTTAATACGTTATCATCTACGTTAGCCCCAGAGAAGCACCGGCTAA 492
Db 416 AAGGTCATTAACCTAAATACGTTAGTTTTCAGCTTACCGACAGAAATAAGCACCGGCTAA 475

QY 493 CTCTGTGCCAGCGCGGTAAATACAGAGGGTCAAGCGTTAATCGAAATTTACTGGCGG 552
Db 476 CTCTGTGCCAGCGCGGTAAATACAGAGGGTCAAGCGTTAATCGAAATTTACTGGCGG 535

QY 553 TAAAGCGCGCTAGTGTGTTTGAAGTCGGATGTGAATCCAGGGCTCAACCTTGAA 612
Db 536 TAAAGCGCGCTAGTGTGTTTGAAGTTGATGTGAAGCCCGGGCTCAACCTGGAA 595

QY 613 TGGCACCCGATACCTAGCTAGTATGTTAGAGGGGTGTGAAATTTCTGTGTAGCG 672
Db 596 CTGCATTCAAAACCTGACAACTAGATATGTTAGAGGGGTGTGAAATTTCTGTGTAGCG 655

QY 673 GTGAAATGCGTAGATATAGGAGGAAATCATGAGTGGCGAGCGGACCCCTGGACTATAC 732
Db 656 GTGAAATGCGTAGATATAGGAGGAAACACCAAGTGGCGAGCGGACCCCTGGACTATAC 715

QY 733 TGACATCTGAGTGTGCGAAAGCGTGGGAGCAACAGGATTAGATACCCCTGGTAGTCCAGC 792
Db 716 TGACATCTGAGTGTGCGAAAGCGTGGGAGCAACAGGATTAGATACCCCTGGTAGTCCAGC 775

QY 793 CGTAAACGATGTCTACTAGCCGTTGG--GTTGTAAATGACTTTAGTGGCGCAGCTAACGCAA 850
Db 776 CGTAAACGATGTCTAACTAGCCGTTGGGAGCCTTGAGCTCTTTAGTGGCGCAGCTAACGCA 835

QY 851 TAAGTAGACCGCTGGGAGTACCGCGCAGGTTAAACCTCAATGAAATTTAGCGGGGC 910
Db 836 TAAGTTGACCGCTGGGAGTACCGCGCAGGTTAAACCTCAATGAAATTTAGCGGGGC 895

QY 911 CCGCACAAAGCGGTGAGCATGTGTTTAAATTCGAAGCAACCGGAAGAACCTTACTACTC 970
Db 896 CCGCACAAAGCGGTGAGCAATGTGTTTAAATTCGAAGCAACCGGAAGAACCTTACTAGGCC 955

QY 971 TTGATATCCACAGAACATTTAGAGATCAGATGTGTGCTTTCGGGAACCTGTGAGACAGTG 1030
Db 956 TTGATATCCAAATGAATTTCCAGAGATGATGGGTGCTTCGGGAACATTTAGACAGAGTG 1015

QY 1031 CTGCATCGCTGTCTGAGCTGTGTTGTGAATGTTGGTTAAGTCCGCTAACGAGCGCA 1090
Db 1016 CTGCATCGCTGTCTGAGCTGTGTTGTGAATGTTGGTTAAGTCCGCTAACGAGCGCA 1075

QY 1091 ACCCTTGTCTTATTTCCAGACGCTAAATGTTGGGAACCTTTAAGGAGACTGCCGGTGACA 1150
Db 1076 ACCCTTGTCTTATTTACAGACGCTAAATGTTGGGCACTCTAAGGAGACTGCCGGTGACA 1135

QY 1151 AACCGAGGAGGTGGGAGCAAGTCAAGTCATCATGCGCCCTTACGAGTAGGGCTACACA 1210
Db 1136 AACCGAGGAGGTGGGAGTCAAGTCATCATGCGCCCTTACGCGCTGGGCTACACA 1195

QY 1211 CGTGCTACAATGGCTATACAGAGGCTCAAGCTAGCGATAGTACCGGAATCCCAAAA 1270
Db 1196 CGTGCTACAATGGCTATACAGAGGTTGCCAAGCCGAGGTGGAGCTAATCCCAAAA 1255

QY 1271 GTACGTCTAGTCCGAGTTCGAGTCTCAACTCGACTCCATGAAGTCGGAATCGCTAGTA 1330
Db 1256 ACCGATCGTAGTCCGAGTTCGAGTCTCGAATCGACTCGCTGGAAGTCGGAATCGCTAGTA 1315

QY 1331 ATCGTGAATCAGAAATGTCAGCGTGAATACGTTCCCGGGCCCTTGTACACACCGCCCGTCAC 1390
Db 1316 ATCGGAAATCAGAAATGTCAGCGTGAATACGTTCCCGGGCCCTTGTACACACCGCCCGTCAC 1375

QY 1391 ACCATGGAGTTGATGCTCCAGAGTAGCTAGCTTAAACCCCTTCGGGGATGGCGGTTACC 1450
Db 1376 ACCATGGAGTTGGGTTGCACAGAGTAGCTAGCTTAAACC--TTCCGGGAGGACGGTTACC 1433
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QY 1451 ACGGAGTGGTCAATGACTGCGGGTTGAAGTCTTAC 1483
Db 1434 ACGGTGTATTGATCATGACTGGGGTGAAGTCTGATAC 1466
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## RESULT 12

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US-10-266-787-5
; Sequence 5, Application US/10266787
; Publication No. US20030082777AI
; GENERAL INFORMATION:
; APPLICANT: Yano, Tetsuya
; APPLICANT: Imamura, Takeshi
; APPLICANT: Suda, Sakae
; APPLICANT: Honma, Tsutomu
; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme
; FILE REFERENCE: 03500.01525.3
; CURRENT APPLICATION NUMBER: US/10/266.787
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: JP 2000-095004
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Word
; SEQ ID NO 5
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 ; BP-7376
; FEATURE: cDNA to 16S rRNA
US-10-266-787-5
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Query Match 76.1%; Score 1131; DB 15; Length 1501;  
Best Local Similarity 88.2%; Pred. No. 6.8e-299; Indels 9; Gaps 6;  
Matches 1299; Conservative 0; Mismatches 165;

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QY 13 TGAACGCTGGCGCAGGCTTAAACACATGCAAGTCGAGCGGTACACAGGGAGCTTTGTCTCC 72
Db 1 TGAACGCTGGCGCAGGCTTAAACACATGCAAGTCGAGCGG-ATGACGGAGCTTTGTCTCC 58

QY 73 TGTGACGAGCGCGGACGGGTGAGTAAACGGTGTAGGAATCTGCCTAGTAGAGGGGACAA 132
Db 59 TGAATTC-AGCGCGGACGGGTGAGTAAATGCTAGGAATCTGCCTGTAGTGGGGACAA 117

QY 133 CATGTGAAACGCGATGCTTAATACCGCATACGCTTACGGGGGAGAGAGGGGACTCTTCG 192
Db 118 CGTCTGAAAGGACGCTTAATACCGCATACGCTTACGGGGGAGAGAGGGGACTCTTCG 175

QY 193 GAGCCTTCCGCTATTAGATGAGCTCGGTGAGATTTAGCTAGTTAGGTAAAGGCTTA 252
Db 176 GGGCTTTGCGCTATCAGATGAGCTAGTTCGATTAGCTAGTTAGGTAGGTATGGCTCA 235

QY 253 CCAAGGCGAGCTCTTAACCTGTTGAGAGGATGACAGTCACTGAGGACTGAGACAC 312
Db 236 CCAAGGCGAGCTCTTAACCTGTTGAGAGGATGATCAGTCACTGGAATGAGACAC 295

QY 313 GGCCGACACTCTACGGGAGCGAGCTGGGGAATATTGGACAATGGCCCAAGCCTGAT 372
Db 296 GGTCCAGACTCTACGGGAGCGAGCTGGGGAATATTGGACAATGGCCCAAGCCTGAT 355

QY 373 CCAGCCATGCCGCTGTGTGAAGAAGCCCTTAGGGTTGTAAAGCACTTTTCAGGGGTGAGG 432
Db 356 CCAGCCATGCCGCTGTGTGAAGAAGGCTCTTCGATTGTAAAGCACTTTTAAGTTGGAGG 415

QY 433 AAGGTTAGTAACTTAATACGTTATCATCTTGAAGTTCAGCCCAAGAGAAGCAACCGGCTAA 492
Db 416 AAGGTCATTAACCTAAATACGTTAGTTTTCAGCTTACCGACAGAAATAAGCACCGGCTAA 475

QY 493 CTCTGTGCCAGCGCGGTAAATACAGAGGTGCAAGCGTTAATCGGAATTTACTGGCGG 552
Db 476 CTCTGTGCCAGCGCGGTAAATACAGAGGTGCAAGCGTTAATCGGAATTTACTGGCGG 535

QY 553 TAAAGCGCGCTAGTGTGTTTGAAGTCGATGTGAATTCAGGAGCTTCAACCTTGGAA 612
Db 536 TAAAGCGCGCTAGTGTGTTTGAAGTTGATGTGAAGCCCGGGCTCAACCTGGAA 595
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QY 613 TGGACCCGACTAGCTAGCTAGATATGGTAGAGGGTGTGGAAATTCCTGTGTAGCG 672
Db 596 CTGCATTCARAACTGACAGCTAGAGTATGGTAGAGGGTGTGGAAATTCCTGTGTAGCG 655
QY 673 GTGAATCGGTAGATATAGGAAGAACATCAGTGGCGAAGCGACACCTGGACTTAATAC 732
Db 656 GTGAATCGGTAGATATAGGAAGAACACCACTGGCGAAGCGACCACTGGACTGATAC 715
QY 733 TGACACTAGGTGCGAAGCGTGGGAGCAACAGAGTATAGTACCTGGTGTAGTCCAGCG 792
Db 716 TGACACTAGGTGCGAAGCGTGGGAGCAACAGAGTATAGTACCTGGTGTAGTCCAGCG 775
QY 793 CGTAAACGATGTCTACTAGCCGTTCG--GTTGTAATGACTAGTGGCGCAGCTAACGCAA 850
Db 776 CGTAAACGATGTCTACTAGCCGTTCGAGAGCTTGTAGTGGCGCAGCTAACGCAAT 835
QY 851 TAACTAGACCGCTCGGAGTACGCGCGCAAGGTTAAACTCAATGAATTCAGCGGGGC 910
Db 836 TAACTAGACCGCTCGGAGTACGCGCGCAAGGTTAAACTCAATGAATTCAGCGGGGC 895
QY 911 CGGCAACGCGTGGAGCATGTGGTTTAAATTCGAAGCAACGCGAAGAACCTTACCTACTC 970
Db 896 CGGCAACGCGTGGAGCATGTGGTTTAAATTCGAAGCAACGCGAAGAACCTTACCTACTC 955
QY 971 TTGACATCCACAGAACATTTGAGAGATCAGATGGTGGCTTCGGGAACTGTGAGACAGGTG 1030
Db 956 TTGACATCCATGAATCTTCAGAGATGGATGGTGGCTTCGGGAACTGTGAGACAGGTG 1015
QY 1031 CTGCATGGCTGCTGCTGAGCTCGTGTGTGAATGTGGGTTAAAGTCCCGTAAACGAGCGCA 1090
Db 1016 CTGCATGGCTGCTGCTGAGCTCGTGTGTGAATGTGGGTTAAAGTCCCGTAAACGAGCGCA 1075
QY 1091 ACCCTGTCTTATTTGCGACGACGTAAATGGTGGGAACTTTAAGGAGACTGCGCGTGACA 1150
Db 1076 ACCCTGTCTTATTTGCGACGACGTAAATGGTGGGAACTTTAAGGAGACTGCGCGTGACA 1135
QY 1151 AACCGGAGGAGGTGGGAGACGCTCAAGTCAATCATGCGCTTACGAGTAGGGCTACACA 1210
Db 1136 AACCGGAGGAGGTGGGAGATGACGTCAAGTCAATCATGCGCTTACGAGTAGGGCTACACA 1195
QY 1211 CTTGCTACAAATCGGTATACAGAGGCTGCAAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCT 1270
Db 1196 CTTGCTACAAATCGGTATACAGAGGTTGCCAAGCGCGAGGTGGAGCTAATCCACAAA 1255
QY 1271 GTACGTGCTAGTCCGATTTGGAGTCTGCAACTCGACTCGAATCGCTAGTGA 1330
Db 1256 ACCGATCGGTAGTCCGATTCGCACTGCAACTCGACTGCGTGAAGTCCGAAATCGCTAGTGA 1315
QY 1331 ATCGTGAATCAGAAATGTCACGGTGAATACGTTCCCGGGCTTTGTACACACCGCCGCTCAC 1390
Db 1316 ATCGGGAATCAGAAATGTCACGGTGAATACGTTCCCGGGCTTTGTACACACCGCCGCTCAC 1375
QY 1391 ACCATGGGAGTGTATTTGCTCCAGAACTAGTGTAGCTTAACCTTCGGGGATGGCGGTACC 1450
Db 1376 ACCATGGGAGTGTATTTGCTCCAGAACTAGTGTAGCTTAACCTTCGGGAGGACGGTTACC 1433
QY 1451 ACGGAGTGTCAATGACTCGGGTTGAAGTCTAC 1483
Db 1434 ACGGAGTGTCAATGACTCGGGTTGAAGTCTAC 1466
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## RESULT 13

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US-10-252-518-5
; Sequence 5, Application US/10252518
; Publication No. US20030087413A1
; GENERAL INFORMATION:
; APPLICANT: Yano, Tetsuya
; APPLICANT: Imamura, Takeshi
; APPLICANT: Suda, Sakae
; APPLICANT: Honma, Tsutomu
; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme
; FILE REFERENCE: 03500.015225.2
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; CURRENT APPLICATION NUMBER: US/10/252,518
; CURRENT FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: JP 2000-095004
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Word
; SEQ ID NO 5
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 ; BP-7376
; FEATURE: cDNA to 16S rRNA
; FEATURE: 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;
US-10-252-518-5
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Query Match 76.1%; Score 1131; DB 15; Length 1501;

Best Local Similarity 88.2%; Pred. No. 6.8e-299;

Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

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QY 13 TGAACGCTGGCGGAGGCTTAAACACATGCAAGTCAAGCGGTAAACAGGGGAGCTTGTCTCC 72
Db 1 TGAACGCTGGCGGAGGCTTAAACACATGCAAGTCAAGCGGTAAACAGGGGAGCTTGTCTCC 58
QY 73 TGCTCAACAGCGCGGAGCGGGTGAAGTAAACGCTAGGAAATCTGCTAGTAGAGGGGACAA 132
Db 59 TGAATTC-AGCGCGGAGCGGGTGAAGTAAACGCTAGGAAATCTGCTAGTAGAGGGGACAA 117
QY 133 CATGTGGAAGAACGCTAATACCCATACGCGCTTACGAGGGGAAAGAGGGGAGCTTTTCG 192
Db 118 CGTCTCGAAGGAGCGCTAATACCGCATACGCTTACGAGGAAAGAGGAGGAA--CCTTC 175
QY 193 GAGCCTTCGCTATTAGATGAGCCCTGCGTAGATTAGCTAGTGTAGGTAGGTTAAAGGCTTA 252
Db 176 GGGCCTTCGCTATTAGATGAGCCCTGCGTAGATTAGCTAGTGTAGGTAGGTTAAAGGCTTA 235
QY 253 CCAAGGCGAGCATCTTAACCTGCTGAGAGGATCAGCAGTCCACTGAGTGTAGGAGTGAACAC 312
Db 236 CCAAGGCGAGCATCTTAACCTGCTGAGAGGATCAGTGTAGGAGTGAACACTGAGTGTAGG 295
QY 313 GCGCCAGAGCTCTACGCGGAGGAGCAGTGGGGAATATTGGCAATATGGCGCAAGCTGAT 372
Db 296 GGTCCAGACTCTACGCGGAGGAGCAGTGGGGAATATTGGCAATATGGCGCAAGCTGAT 355
QY 373 CAGCCATGCGCGTGTGAAGAGGCTTAGGGTTGTAAAGCACTTTCAGGGGTGAGG 432
Db 356 CAGCCATGCGCGTGTGAAGAGGCTTAGGGTTGTAAAGCACTTTCAGGGGTGAGG 415
QY 433 AAGGTTGATAGTTAATAGCTTATCATCTTGACGTTAGCCCGCAGAAAGACCGGCTAA 492
Db 416 AAGGTTGATAGTTAATAGCTTATCATCTTGACGTTAGCCCGCAGAAAGACCGGCTAA 475
QY 493 CTCTGTGCGCAGCGCGGTAATACAGAGGTTGCAAGCTTAAATCGGAATTTACTGGGCG 552
Db 476 CTCTGTGCGCAGCGCGGTAATACAGAGGTTGCAAGCTTAAATCGGAATTTACTGGGCG 535
QY 553 TAAAGCGCGGTAGGTGTTTAAAGTGGATGTAATCCAGGGCTCAACCTTGGAA 612
Db 536 TAAAGCGCGGTAGGTGTTTAAAGTGGATGTAATCCAGGGCTCAACCTTGGAA 595
QY 613 TGGCACCAGTACTGCTAGCTAGATATGGTAGAGGGGTGTGGAAATTTCTGTGTAGCG 672
Db 596 CTGCATTCAAAACCTGACAAAGCTAGATATCGTAGGGGTGGGAATTTCTGTGTAGCG 655
QY 673 GTGAATGCTAGATATAGGAAGAACATCAGTGGCGAAGCGACACCTTGAGCTAATAC 732
Db 656 GTGAATGCTAGATATAGGAAGAACACCACTGGCGAAGGGGACCCACCTGGACTGATAC 715
QY 733 TCACACTAGGTGCGAAGCGTGGGAGCAACAGATAGATACCTCGTAGTCCACGC 792
Db 716 TGACACTAGGTGCGAAGCGTGGGAGCAACAGATAGATACCTCGTAGTCCACGC 775
QY 793 CGTAAACGATGTCTACTAGCCGTTCG--GTTGTAATGACTAGTGGCGCAGCTTAACGCAA 850
Db 776 CGTAAACGATGTCTACTAGCCGTTCGAGCTTGGAGCCCTTGGAGTGTAGTGGCGAGCTTAACGCA 835
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851 TAAGTAGACCGCTGGGAGTACGGCCGCAAGGTTAAATCTAAATGAATTTGACGGGGC 910  
836 TAAAGTTACCGCTGGGAGTACGGCCGCAAGGTTAAATCTAAATGAATTTGACGGGGC 895  
911 CCGCACAAAGCGGTGAGCATGTGTTAAATTCGAAGCAACGCGAAGAACCTTACTACTC 970  
896 CCGCACAAAGCGGTGAGCATGTGTTAAATTCGAAGCAACGCGAAGAACCTTACTACTC 955  
971 TTGACATCCACAGAACATTTGAGAGATCAGATGGTGCCTTCGGGAACTGTGAGACAGGTG 1030  
956 TTGACATCCAAATGAATTTTCAGAGATGGATGGTGCCTTCGGGAACTGTGAGACAGGTG 1015  
1031 CTGCATCGCTGCTGTCAGCTCGTGTGAAATGTTGCGGTAAAGTTCGCGTAAACGAGCGCA 1090  
1016 CTGCATCGCTGCTGTCAGCTCGTGTGAAATGTTGCGGTAAAGTTCGCGTAAACGAGCGCA 1075  
1091 ACCCTTGTCTTATTTGCCAGCAGTAAATGTTGGGAACTTTAAGGAGACTGCCGCTGACA 1150  
1076 ACCCTTGTCTTATTTGCCAGCAGTAAATGTTGGGAACTTTAAGGAGACTGCCGCTGACA 1135  
1151 AACCGAGGAGAGTGGGAGCAAGTCAAGTCAATCATGCGCCCTTACGAGTAGGGCTACACA 1210  
1136 AACCGAGGAGAGTGGGAGTGAAGTCAAGTCAATCATGCGCCCTTACGCGCTGGGCTACACA 1195  
1211 CGTCTCAATGGCTATACAGAGGCTGCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 1270  
1196 CGTCTCAATGGCTATACAGAGGCTGCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 1255  
1271 GTACGTGCTAGTCCGAGTGGAGTCTGCAACTCGACTCCATGAAAGTCCGAACTCGCTAGTA 1330  
1256 ACCGATCGTAGTCCGAGTGGAGTCTGCAACTCGACTCCGAGTGGAGTCCGAGTGGAGT 1315  
1331 ATCGTGAATCAGAAATGTCAGTGAATGTCAGTGGTCCGCGGCTTTGACACACCGCCCGTAC 1390  
1316 ATCGGAATCAGAAATGTCAGTGAATGTCAGTGGTCCGCGGCTTTGACACACCGCCCGTAC 1375  
1391 ACCATGGAGTGGTATGCTCCAGAGTAGTCTTAACCTTCGCGGATGGCGGTTACC 1450  
1376 ACCATGGAGTGGTATGCTCCAGAGTAGTCTTAACCTTCGCGGATGGCGGTTACC 1433  
1451 ACGGAGTGGTCAATGACTGGGGTTGAAGTCTAC 1483  
1434 ACGGTGATTCATGACTGGGGTGAAGTCTAC 1466

RESULT 14  
US-10-105-305-1  
; Sequence 1, Application US/10105305  
; Publication No. US20030096182A1  
; GENERAL INFORMATION:  
; APPLICANT: CANON KABUSHIKI KAISHA  
; TITLE OF INVENTION: POLYHYDROXYALKANOATE CONTAINING UNIT WITH THIENYL STRUCTURE IN THE  
; TITLE OF INVENTION: CHAIN, PROCESS FOR ITS PRODUCTION, CHARGE CONTROL AGENT, TONER H  
; TITLE OF INVENTION: TONER WHICH CONTAIN THIS POLYHYDROXYALKANOATE, AND IMAGE-FORMING  
; TITLE OF INVENTION: IMAGE-FORMING APPARATUS WHICH MAKE USE OF THE TONER  
; FILE REFERENCE: CF016309  
; CURRENT APPLICATION NUMBER: US/10/105,305  
; CURRENT FILING DATE: 2002-03-26  
; PRIOR APPLICATION NUMBER: JP 2001-090026, JP 2001-133551  
; PRIOR FILING DATE: 2001-3-27, 2001-4-27  
; NUMBER OF SEQ ID NOS: 1  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii 161 strain.  
US-10-105-305-1

Query Match 76.1%; Score 1131; DB 15; Length 1501;  
Best Local Similarity 88.2%; Pred. No. 6.8e-299;  
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

13 TGAACGCTGGCGGAGGCTTAAACACATGCAAGTCGAGCGGTAAACAGGGAGCTTGCTCC 72

1 TGAACGCTGGCGGAGGCTTAAACACATGCAAGTCGAGCGG-ATGACGGGAGCTTGCTCC 58  
73 TGCTGACGAGCGCGGAGCGGCTGAGTAACCGGTAGGAAATCTGCTAGTAGAGGGGACAA 132  
59 TGAATTC-AGCGGCGGAGCGGCTGAGTAATGCTAGGAATCTGCTGTTAGTGGGGGACAA 117  
133 CATGTGAAAACGATGCTAATACCGCATACGCTGAGGGGAAAGAGAGGAGTCTTCTTCG 192  
118 CGTCTCGAAAGGAGCGCTAATACCGCATACGCTCTAGGGAGAAAGCAGGGGA--CCTTC 175  
193 GAGCCTTCCGCTATTTAGATGAGCTCGCTGAGATTAGCTAGTTAGGGTAAAGGCTTA 252  
176 GGGCTTTCGCTATCAGATGAGCTAGTTCGATTCGATTTAGTTCGAGGTAAATGGGTCA 235  
253 CCAAGGCGAGCATCTCTAATCTGCTGAGAGGATGACAGTCACTGCGGACTGAGACAC 312  
236 CCAAGGCGAGCATCTCTAATCTGCTGAGAGGATGATCAGTCACTGCGGAACTGAGACAC 295  
313 GGCCGACACTCTACCGGAGGAGCAGTGGGGAATTTGGACAATTTGGCGCAAGCCTGAT 372  
296 GGTCCAGACTCTCTACCGGAGGAGCAGTGGGGAATTTGGACAATTTGGCGCAAGCCTGAT 355  
373 CCAAGCCTATCGCGGTGTGTGAAGAAGCCTTTAGGGTTGTAAAGCCTTTTCAGGGGTGAGG 432  
356 CCAAGCCTATCGCGGTGTGTGAAGAAGCCTTTTCGATTTGTAAGCCTTTTAAGTTGGGAGG 415  
433 AAGGCTGATAGTGTATACGTTATCATCTTTCAGCTTACGCTTACGCTTACGCTTACGCTTAC 492  
416 AAGGCTGATAGTGTATACGTTATCATCTTTCAGCTTACGCTTACGCTTACGCTTACGCTTAC 475  
493 CTCTGTCGAGCAGCAGCGCTGTAATACAGAGGCTGCAAGCGTTAATCGGAATTTACTGGGCG 552  
476 CTCTGTCGAGCAGCAGCGCTGTAATACAGAGGCTGCAAGCGTTAATCGGAATTTACTGGGCG 535  
553 TAAAGCGCGGTAGTGGTGTGTTTAAAGTTCGATGTGAAATCCCAGGCTCAACCTTCGAA 612  
536 TAAAGCGCGGTAGTGGTGTGTTTAAAGTTCGATGTGAAATCCCAGGCTCAACCTTCGAA 595  
613 TGGCACCAGTACTGCTGCTAGTATGATGATGAGGGGTGCGAAATTTCTGTTAGCG 672  
596 CTGCATTTCAAACTGCAAGCTAGTATGATGATGAGGGTGGTGAATTTCTGTTAGCG 655  
673 GTGAATGCTGATATATAGGAAGCAATCAGTGGCGAGCGACACCTGAGCTAATAC 732  
656 GTGAATGCTGATATATAGGAAGCAATCAGTGGCGAGCGACACCTGAGCTAATAC 715  
733 TGACACTGAGGTGCGAAAGCGTGGGAGCAACAGGATTAGATACCTGTTAGTCCAGCG 792  
716 TGACACTGAGGTGCGAAAGCGTGGGAGCAACAGGATTAGATACCTGTTAGTCCAGCG 775  
793 CGTAAACGATGCTACTAGCGGTTGG--GTTGTAATGACTTAGTGGCGCAGCTAACGCA 850  
776 CGTAAACGATGCTCAACTAGCGGTTGGGAGCGCTTGGAGCTCTTAGTGGCGCAGCTAACGCA 835  
851 TAAGTACACCGCTGGGAGTACGCGCGCAAGGTTTAAACTCAATCAATGAAATGACGGGGC 910  
836 TAAGTTGACCGCTGGGAGTACGCGCGCAAGGTTTAAACTCAATCAATGAAATGACGGGGC 895  
911 CCGCACAAAGCGGTGAGCATGTGTTAAATTCGAAGCAACGCGAAGAACCTTACTACTC 970  
896 CCGCACAAAGCGGTGAGCATGTGTTAAATTCGAAGCAACGCGAAGAACCTTACTACTC 955  
971 TTGACATCCACAGAACATTTGAGAGATCAGATGGTGCCTTCGGGAACTGTGAGACAGGTG 1030  
956 TTGACATCCAAATGAATTTTCAGAGATGGATGGTGCCTTCGGGAACTGTGAGACAGGTG 1015  
1031 CTGCATCGCTGCTGTCAGCTCGTGTGAAATGTTGCGGTAAAGTTCGCGTAAACGAGCGCA 1090  
1016 CTGCATCGCTGCTGTCAGCTCGTGTGAGATGTTGCGGTAAAGTTCGCGTAAACGAGCGCA 1075  
1091 ACCCTTGTCTTATTTGCCAGCAGTAAATGTTGGGAACTTTAAGGAGACTGCCGCTGACA 1150

Db 1076 ACCCTTGCTCTTCTAGTTACACGACGTAATGGTGGGCACTCTTAAGGAGACTGCCGGGTGACA 1135  
QY 1151 AACCGGAGGAGGCTGGGAGCAGCTCAAGTCATCATGGCCCTTTACGAGTAGGGCTACACA 1210  
Db 1136 AACCGGAGGAGGCTGGGAGGATGACGTCAAGTCATCATGGCCCTTACGGCTGGGCTACACA 1195  
QY 1211 CGTGCTACAAATGGCGGTATACAGAGGGCTGCAAGCTAGCGCAATGAGCGAAATCCACAAA 1270  
Db 1196 CGTGCTACAAATGGCTGGTACAGAGGGTTGCCAAGCCGCGAGGTGAGGCTAAATCCACAAA 1255  
QY 1271 GTACGCTGAGTCCGGATTTGGAGTCTGCACTCGACTCATGAAGTCGGAATCGCTAGTA 1330  
Db 1256 ACCGATCGTAGTCCGGATCGCAGTCTGCAACTCGACTCGTGGAGTTCGGAATCGCTAGTA 1315  
QY 1331 ATCGTGAATCAGAAATGTCACGGTGAATACGTTCCCGGGCTTTGTACACACCCCGCTCAC 1390  
Db 1316 ATCGCGAATCAGAAATGTCGGGTGAATAGCTTTCCGGGCTTTGTACACACCCCGCTCAC 1375  
QY 1391 ACCATGGGAGTTGATTTGCTCCAGAACTAGCTAGCTTAACCCCTTCGGGGATGGCGGTTACC 1450  
Db 1376 ACCATGGGAGTTGCTTCACCAAGAACTAGCTAGCTTAACCC--TTCCGGGAGGACGGTTACC 1433  
QY 1451 ACGGAGTGTCAATGACTGGGCTTGAAGTCTAC 1483  
Db 1434 ACGGTGTGATTCATGACTGGGCTGAAGTCGTAC 1466

RESULT 15  
US-10-133-404A-1  
; Sequence 1, Application US/10133404A  
; Publication No. US20030104302A1  
; GENERAL INFORMATION:  
; APPLICANT: Tsutomu Honma  
; APPLICANT: Tetsuya Yano  
; APPLICANT: Tsuyoshi No. US20030104302A1oto  
; APPLICANT: Shinya Kozaki  
; TITLE OF INVENTION: Construct and Method for Making It  
; FILE REFERENCE: CPO16374  
; CURRENT APPLICATION NUMBER: US/10/133,404A  
; CURRENT FILING DATE: 2002-08-15  
; PRIOR APPLICATION NUMBER: JP P2001-131694  
; PRIOR FILING DATE: 2001-04-27  
; PRIOR APPLICATION NUMBER: JP P2001-208704  
; PRIOR FILING DATE: 2001-07-10  
; NUMBER OF SEQ ID NOS: 13  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii 161 strain  
US-10-133-404A-1

Query Match 76.1%; Score 1131; DB 15; Length 1501;  
Best Local Similarity 88.2%; Pred. No. 6, 8e-299;  
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

QY 13 TGAACGCTGGCGGAGGCTTAAACATGCAAGTCGAGCGGTAAACAGGGAGCTTGCTCC 72  
Db 1 TGAACGCTGGCGGAGGCTTAAACATGCAAGTCGAGCGGTAAACAGGGAGCTTGCTCC 58  
QY 73 TGCTGACGAGCGGAGGCTGAGTACGGTAGGAATCTGCTAGTAGAGGGGACAA 132  
Db 59 TGAATTC--AGCGGGGAGGAGGCTGAGTAAATGCTAGGAATCTGCTAGTAGAGGGGACAA 117  
QY 133 CATGTGGAACGCTATGCTTAATACCCATACGCGCTTACGGGGGAAAGGAGGAGCTTCTTCG 192  
Db 118 CGTCTGAAAGGAGGCTTAATACCGCATACGTCCTACGGGAGAGCAGGGGA--CCTTC 175  
QY 193 GAGCCTCCGCTATTAGATGAGCCCTGCGTAGATTAGCTAGTTGTTGTAAGGTAAGGCTTA 252  
Db 176 GGGCCCTTGGCTTATCAGATGAGCCCTAGGTTCGGAATTTAGCTAGTTGTTGAGGTAATGGCTCA 235  
QY 253 CCAAGGCGACGATCTCTAACTGCTGAGAGGATGACCACTGGAATGAGGAGTAC 312

Db 236 CCAAGGCGACGATCCGTAACTCGTCTGAGAGGATGATCAGTCACACTGGAATGAGACAC 295  
QY 313 GSCCCAGACTCCCTACGGGAGGAGCAGCTGGGGAAATATTGGACAAATGGGCGCAAGCTGAT 372  
Db 296 GGTCCAGACTCCCTACGGGAGGAGCAGCTGGGGAAATATTGGACAAATGGGCGCAAGCTGAT 355  
QY 373 CCAGCCATGCCCGCTGTGTGAAGAAAGGCTTTAGGGTTGTAAAGCACTTTTCAGGGGTGAGG 432  
Db 356 CCAGCCATGCCCGCTGTGTGAAGAAAGGCTTTCCGGATTGTAAAGCACTTTTAAGTTGGAGG 415  
QY 433 AAGGTGATAGGTTAATACGTTATCATCTTGACGTTAGCCCCAGAAAGACACCGGCTAA 492  
Db 416 AAGGCAATTAACCTAATACGTTAGTGTGTTGACGTTACCGACAGAATAGCAACCGGCTAA 475  
QY 493 CTCTGTGCCAGCAGCCGCTTAATACAGAGGCTGCAAGCTTAATCGGAATTTACTGGGCG 552  
Db 476 CTCTGTGCCAGCAGCCGCTTAATACAGAGGCTGCAAGCTTAATCGGAATTTACTGGGCG 535  
QY 553 TAAAGCGCGCTAGTGTGTTTAAAGTCGATGTGAATCCAGGGCTCAACCTTGGAA 612  
Db 536 TAAAGCGCGCTAGTGTGTTTAAAGTCGATGTGAATCCAGGGCTCAACCTTGGAA 595  
QY 613 TGGCACCCGATACCTGCTAGCTAGTATGTTAGAGGGGTGTTGGAATTTCTGTGTAGG 672  
Db 596 CTGCATTCAAACTGACAAAGCTAGAGTATGTTAGAGGGTGGTGGAAATTTCTGTGTAGG 655  
QY 673 GTGAATGCTAGATATAGGAAGAACATCAGTGGCGAAGGCGACACCTCGACTTAATAC 732  
Db 656 GTGAATGCTAGATATAGGAAGAACACACCTGCGAAGGCGACACCTCGACTGATAC 715  
QY 733 TGACACTGAGGTGCGAAAGCGTGGGAGCAACACAGGATTTAGATACCTTGTTAGTCCAAG 792  
Db 716 TGACACTGAGGTGCGAAAGCGTGGGAGCAACACAGGATTTAGATACCTTGTTAGTCCAAG 775  
QY 793 CGTAAACCATGCTCTACTAGCCGTTGG--GTTGTAATGACTTAGTGGCGCAGCTAACGCA 850  
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QY 851 TAAGTAGACCCCTCGGGAGTACGGCCGCAAGGTTTAAACTCAAAATGAATGACGGGGG 910  
Db 836 TAAGTGACCCGCTGGGAGTACGGCCGCAAGGTTTAAACTCAAAATGAATGACGGGGG 895  
QY 911 CCGCAACAGCGGTGGAGCATGTGTTTAAATTCGAAGCAACGCAAGAACCTTTACCTACTC 970  
Db 896 CCGCAACAGCGGTGGAGCATGTGTTTAAATTCGAAGCAACGCAAGAACCTTTACCTACTC 955  
QY 971 TTGACATCCACAGAACATTTGAGAGATCAGATGTTGCTTCGGGACACTGTGAGACAGTG 1030  
Db 956 TTGACATCCAAATGAACCTTTCCAGAGATGGATGGGTTGCTTCGGGAAACATTTGAGACAGTG 1015  
QY 1031 CTGCATGGCTCTCGTCACTGCTGTGTTGTTGAAATGTTGGGTTAAAGTCCCGTAAACGAGCGCA 1090  
Db 1016 CTGCATGGCTCTCGTCACTGCTGTGAGATGTTGGGTTAAAGTCCCGTAAACGAGCGCA 1075  
QY 1091 ACCCTTGCTCTTATTTGCCAGCATGTAATGTTGGGAACTTTAAGGAGACTGCCGGTGACA 1150  
Db 1076 ACCCTTGCTCTTATTTGCCAGCATGTAATGTTGGGAACTTTAAGGAGACTGCCGGTGACA 1135  
QY 1151 AACCGGAGGAGGTTGGGAGCAGCTCAAGTCATCATGCGCCCTTACGAGTAGGGCTTACACA 1210  
Db 1136 AACCGGAGGAGGTTGGGATGACGTCGAAGTCATCATGCGCCCTTACGCGCTGGGCTTACACA 1195  
QY 1211 CGTGCTCAATGCGGCTATACAGAGGGCTGCAAGCTAGCGATAGTAGCGAATCCACAAA 1270  
Db 1196 CGTGCTCAATGCGGCTATACAGAGGGTTGCCAAGCCGAGGTTGAGCTAATCCACAAA 1255  
QY 1271 GTAGTGTGTAGTCCGATTTGGAGTCTGCAACTCGACTCCATGAAGTCGGAATCGCTAGTA 1330  
Db 1256 ACCGATCGTAGTCCGGATTCGAGCTGTCGCACTCGACTCGTGGAGTTCGGAATCGCTAGTA 1315  
QY 1331 ATCGTGAATCAGAAATGTCACCGTGAATACGTTCCGGGCTTTGTACACACCCCGCTCAC 1390  
Db 1316 ATCGGAATCAGAAATGTCGCGGTGAATACGTTCCGGGCTTTGTACACACCCCGCTCAC 1375

Qy 1391 ACCATGGGAGTTGATTGCTCCAGAAAGTAGCTTAACCCCTTCGGGGATGGCGGTACC 1450  
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Db 1376 ACCATGGGAGTGGGTTGGACCCAGAAAGTAGCTTAACCCCTTCGGGGATGGCGGTACC 1433  
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Qy 1451 ACGGAGTGGTCAATGACTGGGTTGAAGTCTAC 1483  
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Db 1434 ACGGTGTGATTGATGACTGGGTTGAAGTCTAC 1466  
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Job time : 761.953 secs



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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: September 24, 2004, 08:40:22 ; Search time 116.857 Seconds  
(without alignments)  
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Perfect score: 1486

Sequence: 1 gtagctcagattgaacgct.....ctgggggtgaagtctacgcg 1486

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Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Issued Patents NA.\*

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6: /cgn2\_6/ptodata/2/ina/backfiles.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1131	76.1	1501	4	US-09-793-920A-1
2	1131	76.1	1501	4	US-09-821-016-5
3	1131	76.1	1501	4	US-09-745-476-1
4	1131	76.1	1501	4	US-09-748-205-1
5	1131	76.1	1501	4	US-09-951-720-1
6	1131	76.1	1501	4	US-10-411-319-1
7	1109.4	74.7	1518	1	US-08-114-695A-6
8	1100.2	74.0	1467	4	US-09-726-774-3
9	1067.2	71.8	1487	4	US-09-726-774-4
10	1065.4	71.7	1500	4	US-09-726-774-4
11	1064.6	71.6	1542	2	US-08-757-653-158
12	1064.6	71.6	1542	4	US-09-455-355-2
13	1064.6	71.6	1542	4	US-08-520-946-158
14	1064.6	71.6	1542	4	US-09-655-378A-158
15	1058.8	71.3	1542	1	US-08-114-695A-1
16	1057.4	71.2	1484	2	US-08-632-470-53
17	1052.4	70.8	269223	4	US-09-596-002-41
18	1051.2	70.7	1541	4	US-09-726-774-2
19	1039	69.9	1485	1	US-08-299-810A-27
20	1034	69.6	1450	4	US-09-726-774-1
21	1028.2	69.2	1540	4	US-09-228-184-1
22	1028.2	69.2	1540	4	US-09-957-376-1
23	1025.8	69.0	1830121	4	US-09-557-884-1
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25	1025.8	69.0	1830121	4	US-09-643-990A-1
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27	1018.8	68.6	1487	4	US-09-726-774-13

28	995.8	67.0	640681	4	US-09-790-988-1	Sequence 1, Appli
29	990.8	66.7	1449	4	US-09-602-417-1	Sequence 1, Appli
30	968.8	65.2	1473	1	US-08-114-695A-2	Sequence 2, Appli
31	938.6	63.2	1536	1	US-08-114-695A-7	Sequence 7, Appli
32	932.4	62.7	1536	2	US-08-642-229A-1	Sequence 1, Appli
33	918.6	61.8	1544	4	US-09-726-774-5	Sequence 5, Appli
34	918.4	61.8	1452	2	US-08-642-229A-2	Sequence 2, Appli
35	914.4	61.5	1451	3	US-09-342-579-1	Sequence 1, Appli
36	914.4	60.8	1451	4	US-09-617-854A-1	Sequence 1, Appli
37	903.4	60.8	1453	4	US-09-735-567-4	Sequence 4, Appli
38	901.6	60.7	1474	1	US-08-114-695A-8	Sequence 8, Appli
39	894.8	60.2	1467	4	US-09-735-567-2	Sequence 2, Appli
40	893.4	60.1	1454	4	US-09-735-567-7	Sequence 7, Appli
41	890.8	59.9	1539	4	US-09-735-567-6	Sequence 6, Appli
42	882.6	59.4	1455	2	US-08-642-229A-3	Sequence 3, Appli
43	875.8	58.9	1495	4	US-09-063-898-1	Sequence 1, Appli
44	844.8	56.9	1506	3	US-09-198-955A-13	Sequence 13, Appli
45	844.8	56.9	1506	4	US-09-694-531-13	Sequence 13, Appli

#### ALIGNMENTS

##### RESULT 1

US-09-793-920A-1

; Sequence 1, Application US/09793920A

; Patent No. 6479621

; GENERAL INFORMATION:

; APPLICANT: Canon Inc.

; TITLE OF INVENTION: Polyhydroxyalkanoate containing 3-hydroxythienylalkanoic acid as

; FILE OF INVENTION: monomer unit, and method for producing the same.

; FILE REFERENCE: 4396021

; CURRENT APPLICATION NUMBER: US/09/793,920A

; CURRENT FILING DATE: 2001-02-28

; NUMBER OF SEQ ID NOS: 1

; SEQ ID NO 1

; LENGTH: 1501

; TYPE: DNA

; ORGANISM: Pseudomonas jessenii 161 strain.

US-09-793-920A-1

Query Match 76.1%; Score 1131; DB 4; Length 1501;

Best Local Similarity 88.2%; Pred. No. 0;

Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

Qy	13	TGAACGCTGGCGGAGGCTTTAAACACATGCAAGTCGAGCGGTAAACAGGGAGCTTGTCTCC	72
Db	1	TGAACGCTGGCGGAGGCGCTTAAACACATGCAAGTCGAGCGGTAAACAGGGAGCTTGTCTCC	58
Qy	73	TGCTGACGAGGCGGAGCGGTGAGTAAACCGGTAGGAATCTGCCTAGTAGAGGGGACAA	132
Db	59	TGAATTC-AGCGGCGGAGCGGTGAGTAAACCGGTAGGAATCTGCCTAGTAGAGGGGACAA	117
Qy	133	CATGTGAAACGCGATGCTAATACCGCATACGCTGAGGGGAAAGGAGGGGACTCTTCG	192
Db	118	CGTCTGAAAGGAGCGCTAATACCGCATACGCTGAGGGGAAAGGAGGGGACTCTTCG	175
Qy	193	GAGCCTTTCCTATTAGATGAGCTGCGTGGAGATTAGCTAGTTGGTAGGGGCTTAAGGCGCTA	252
Db	176	GGGCGCTTGGCTATCAGATGAGCTAGTTCGGATTAGCTAGTTGGTAGGGGCTTAAGGCGCTA	235
Qy	253	CCAAGGCGAGCATCTCTAACTGGTCTGAGAGGATGACCTACCTGGAACCTGAGACAC	312
Db	236	CCAAGGCGAGCATCTCTAACTGGTCTGAGAGGATGACCTACCTGGAACCTGAGACAC	295
Qy	313	GGCCAGACTCTTACGAGGAGCGAGTGGGGAATATTGGACAATGGCCAGGCTGAT	372
Db	296	GGTCCAGACTCTTACGAGGAGCGAGTGGGGAATATTGGACAATGGCCAGGCTGAT	355
Qy	373	CCAGGCAATGCGCGGTGTGTGAAGAAGCGCTTACGGTTGTAAAGCACCTTTTCAGGGGTGAGG	432
Db	356	CCAGGCAATGCGCGGTGTGTGAAGAAGCTCTTCGGATTGTAAAGCACCTTTTCAGGGGTGAGG	415

433 AAGGTGATAGTAAATACGTTATCATCTTGACGTGTTAGCCCGAAGAACACCGCTAA 492  
 416 AAGGCATTAACCTAATACGTTAGTGTGTTTACGTTACCGACAGATTAAGACACCGCTAA 475  
 493 CTCTGTGCCAGCAGCGCGGTAATACAGAGGTTGCAAGGTTAAATCGGAATTAATCTGGCG 552  
 476 CTCTGTGCCAGCAGCGCGGTAATACAGAGGTTGCAAGGTTAAATCGGAATTAATCTGGCG 535  
 553 TAAAGCGCGTGTAGTGTGTTTAAAGTCGATGTGAATCCAGGGCTCAACCTTGAA 612  
 536 TAAAGCGCGTGTAGTGTGTTTAAAGTCGATGTGAATCCAGGGCTCAACCTTGAA 595  
 613 TGGCACCCGATCTGCTAGCTAGTAGTATGCTAGAGGGTGTGAATTTCTGTGTAGCG 672  
 596 CTGCAATTCATAACTGACAGCTAGAGTATGCTAGAGGGTGTGAATTTCTGTGTAGCG 655  
 673 GTGAATGCTAGATATAGGAAGGAACATCACTGCGAAGGCGACACCTGTGACTTAATAC 732  
 656 GTGAATGCTAGATATAGGAAGGAACATCACTGCGAAGGCGACACCTGTGACTTAATAC 715  
 733 TGACACTGAGTGTGCGAAGCGTGGGAGCAACAGGATTAGATACCCCTGTGTAGTCCACGC 792  
 716 TGACACTGAGTGTGCGAAGCGTGGGAGCAACAGGATTAGATACCCCTGTGTAGTCCACGC 775  
 793 CGTAAACGATGCTACTAGCCGTTGG- GTTGTATGACTTGTAGTGGCGCAGCTAAACGCAA 850  
 776 CGTAAACGATGCTACTAGCCGTTGGAGCCCTTGAGCTCTTGTAGTGGCGCAGCTAAACGCA 835  
 851 TAAAGTAGACCGCTGGGAGTACCGCCGCAAGGTTAAATCTCAATGAATTTGAGCGGGC 910  
 836 TAAAGTAGACCGCTGGGAGTACCGCCGCAAGGTTAAATCTCAATGAATTTGAGCGGGC 895  
 911 CGGACACGCGTGGAGCATGTGTTTAAATTCGAGCAACGCGAAGCTTACCTACTCTC 970  
 896 CGGACACGCGTGGAGCATGTGTTTAAATTCGAGCAACGCGAAGCTTACCTACTCTC 955  
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 956 TTGACATCCACAGCAATTTGAGAGATGATGCTGCTTCCGGAACCTGTGAGACAGGTG 1015  
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 1016 CTGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1075  
 1091 ACCCTTGTCTTATTTCCAGCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1150  
 1076 ACCCTTGTCTTATTTCCAGCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1135  
 1151 AACCGAGGAGGTGGGAGCAGCTCAAGTCAATCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1210  
 1136 AACCGAGGAGGTGGGAGCAGCTCAAGTCAATCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1195  
 1211 CGTGTCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1270  
 1196 CGTGTCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1255  
 1271 GTACGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1330  
 1256 ACCGATCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1315  
 1331 ATCGTGAATCAGAAATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1390  
 1316 ATCGGCAATCAGAAATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1375  
 1391 ACCATGGAGTGAATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1450  
 1376 ACCATGGAGTGAATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1433  
 1451 ACCGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1483  
 1434 ACCGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1466

RESULT 2  
 US-09-821-016-5  
 ; Sequence 5, Application US/09821016  
 ; Patent No. 6485951  
 ; GENERAL INFORMATION:  
 ; APPLICANT: CANON INC.  
 ; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme  
 ; FILE REFERENCE: 4051021  
 ; CURRENT APPLICATION NUMBER: US/09/821,016  
 ; CURRENT FILING DATE: 2001-03-30  
 ; NUMBER OF SEQ ID NOS: 11  
 ; SOFTWARE: Microsoft Word  
 ; SEQ ID NO 5  
 ; LENGTH: 1501  
 ; TYPE: DNA  
 ; ORGANISM: Pseudomonas jessenii p161 ; BP-7376  
 ; FEATURE:  
 US-09-821-016-5

Query Match 76.1%; Score 1131; DB 4; Length 1501;  
 Best Local Similarity 88.2%; Pred. No. 0;  
 Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

QY 13 TGAACGCTGGCGGCGAGGCTTAAACACATGCAAGTCAAGCGGTAAACAGGGAGCTTGCTCC 72  
 Db 1 TGAACGCTGGCGGCGAGGCTTAAACACATGCAAGTCAAGCGGTAAACAGGGAGCTTGCTCC 58  
 QY 73 TCGTCAGCAGCGCGGCGAGGCTTAAACACATGCAAGTCAAGCGGTAAACAGGGAGCTTGCTCC 132  
 Db 59 TGAATTC-AGCGCGGCGAGGCTTAAACACATGCAAGTCAAGCGGTAAACAGGGAGCTTGCTCC 117  
 QY 133 CATGTGGAACCATGCTAATACCGCATACCGCTTACCGCTTACCGCTTACCGCTTACCGCTTACCGCTT 192  
 Db 118 CGTCTCGAAAGGCGAGCTTAAACACATGCAAGTCAAGCGGTAAACAGGGAGCTTGCTCC 175  
 QY 193 GAGCCTTCCGCTTATAGATGAGCCTGCGTGAATAGCTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGT 252  
 Db 176 GGGCCTTGGCTATCAGATGAGCCTGAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGT 235  
 QY 253 CCAAGCGCAGCATCTTAACTGCTGAGAGGATCAGCATCAGTCACTTGGAGCTGAGACAC 312  
 Db 236 CCAAGCGCAGCATCTTAACTGCTGAGAGGATGATCAGTCACTTGGAGCTGAGACAC 295  
 QY 313 GGCACAGCTCTTACCGGAGGCGAGTGGGGAATTTGGACAATGGGCGCAAGCTGAT 372  
 Db 296 GGTCCAGACTCTTACCGGAGGCGAGTGGGGAATTTGGACAATGGGCGCAAGCTGAT 355  
 QY 373 CCAGCCATCCGCTGTGTGAAGAGGCTTAGGTTGTAAAGCACTTTTCAGGGGTGAGG 432  
 Db 356 CCAGCCATCCGCTGTGTGAAGAGGCTTCTCGGATTTAAAGCACTTTTAAAGTGGGAGG 415  
 QY 433 AAGGGTGTAGTGTAACTGCTTATCATCTTGGAGTGTAGCCCGCAGAGAGCAACCGCTAA 492  
 Db 416 AAGGGCATTAACCTAATAGTGTAGTGTGTAGTGTGTAGTGTGTAGTGTGTAGTGTGTAGTGTGTAGTGTGTAGTGT 475  
 QY 493 CTCTGTGCCAGCAGCGCGGTAAATACAGAGGTGCAAGCGTTAATCGGAATTAATCTGGCG 552  
 Db 476 CTCTGTGCCAGCAGCGCGGTAAATACAGAGGTGCAAGCGTTAATCGGAATTAATCTGGCG 535  
 QY 553 TAAAGCGCGTGTAGTGTGTGAAGAGGCTTAGGTTGTAAAGCACTTTTCAGGGGTGAGG 612  
 Db 536 TAAAGCGCGTGTAGTGTGTGAAGAGGCTTAAAGTGTGAAGAGGCTTAAAGTGTGAAGAGGCTTAAAGTGTGAAGAGG 595  
 QY 613 TGGCACCCGATCTGCTAGCTAGTAGTATGCTAGAGGGTGTGAATTTCTGTGTAGCG 672  
 Db 596 CTGCAATTCATAACTGACAGCTAGAGTATGCTAGAGGGTGTGAATTTCTGTGTAGCG 655  
 QY 673 GTGAATGCTAGATATAGGAAGGAACATCACTGCGAAGGCGACACCTGTGACTTAATAC 732  
 Db 656 GTGAATGCTAGATATAGGAAGGAACATCACTGCGAAGGCGACACCTGTGACTTAATAC 715  
 QY 733 TGACACTGAGTGTGCGAAGCGTGGGAGCAACAGGATTAGATACCCCTGTGTAGTCCACGC 792

Db 716 TGACACTGAGGTGCGAAGCGTGGGAGCAACAGGATTAGATACCTTGTAGTCCACGC 775  
Qy 793 CGTAAACGATGCTACTAGCCGTTGG - GTTGTAAATGACTTGTAGTGGCAGCTAAACGCAA 850  
Db 776 CGTAAACGATGCTAACTAGCCGTTGGAGCCTTGAGCTCTTGTGGCGAGCTAAACGCA 835  
Qy 851 TAAAGTAGACCGCTGGGGAGTAGCGCCGCAAGGTTAAAACTCAAAATGAATTTGACGGGGC 910  
Db 836 TAAAGTTGACCGCTGGGGAGTAGCGCCGCAAGGTTAAAACTCAAAATGAATTTGACGGGGC 895  
Qy 911 CGCACAAAGCGGTGGAGCATGTGGTTAAATTCGAAGCAACGCGAAGAACTTTACAGGCC 970  
Db 896 CCGCACAAAGCGGTGGAGCATGTGGTTAAATTCGAAGCAACGCGAAGAACTTTACAGGCC 955  
Qy 971 TTGACATCCACAGAACTTTGAGAGATCAGATGGTGGCTTTCCGGAACTGTGAGACAGGTG 1030  
Db 956 TTGACATCCAAATGAATTTCCAGAGATGATGGTGGCTTTCCGGAACTGTGAGACAGGTG 1015  
Qy 1031 CTGCATGGCTGTGCTCAGTCTGTGTGTGAAATGTGGGTTAAGTCCCGTAAACGAGCGCA 1090  
Db 1016 CTGCATGGCTGTGCTCAGTCTGTGTGTGAAATGTGGGTTAAGTCCCGTAAACGAGCGCA 1075  
Qy 1091 ACCCTTGTCTTATTTGTCAGCAGCATGATGGTGGAACTTTTAAAGAGACTGCGCGTGACA 1150  
Db 1076 ACCCTTGTCTTATTTGTCAGCAGCATGATGGTGGAACTTTTAAAGAGACTGCGCGTGACA 1135  
Qy 1151 AACCGAGGAAAGTGGGAGCAGCTCAAGTCAATCATGTCCTTTACGGCTTACGAGTGGCTACACA 1210  
Db 1136 AACCGAGGAAAGTGGGAGCAGCTCAAGTCAATCATGTCCTTTACGGCTTACGAGTGGCTACACA 1195  
Qy 1211 CGTGTCAATGGCGTATACAGAGGCTGCAAGCTAGCTAGGAGTAAAGTCCCGTAAACGAGCGCA 1270  
Db 1196 CGTGTCAATGGCTGCGTACAGAGGCTTCCAAAGCGCGAGTGGAGCTAAATCCACAAA 1255  
Qy 1271 GTACGTCTGTAGTCCGGATTGGAGTCTGCAACTCGACTCAATGAAGTCCGAATCGCTAGTA 1330  
Db 1256 ACCGATGTAGTCCGGATCGGAGTCTGCAACTCGACTCGTGAAGTCCGGAATCGCTAGTA 1315  
Qy 1331 ATCGTGAATCAGATGTCAAGCTGAATACGTTCCCGGCTTGTACACACCGCCGCTAC 1390  
Db 1316 ATCGGATCAGATGTCCGGTGAATACGTTCCCGGCTTGTACACACCGCCGCTAC 1375  
Qy 1391 ACCATGGAGTTGATGCTCCAGAGTAGTACCTTACCTTCGGGATGCGCGTTACC 1450  
Db 1376 ACCATGGAGTGGGTTGACACAGAGTACCTAGTCTAAC - TTCGGGAGGAGCGTTACC 1433  
Qy 1451 ACGGAGTGTCAATGACTGGGGTTCAAGTCTAC 1483  
Db 1434 ACGGTGTGATTCATGACTGGGGTGAAGTCTGATAC 1466

## RESULT 3

US-09-745-476-1  
; Sequence 1, Application US/09745476  
; Patent No. 6521429  
; GENERAL INFORMATION:  
; APPLICANT: CANON INC.  
; TITLE OF INVENTION: Preparation of Poly-hydroxyalkanoic Acid  
; FILE REFERENCE: 4351008  
; CURRENT APPLICATION NUMBER: US/09/745,476  
; CURRENT FILING DATE: 2000-12-26  
; NUMBER OF SEQ ID NOS: 1  
; SOFTWARE: Microsoft Word  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii P161 ; FERM P-17445  
US-09-745-476-1

Query Match 76.1%; Score 1131; DB 4; Length 1501;  
Best Local Similarity 88.2%; Pred. No. 0;  
Matches 1299, Conservative 0; Mismatches 165; Indels 9; Gaps 6;

Qy 13 TGAACGCTGGCGCAGGCTTAAACACATCGAAGTCGAGCGGTAAACAGGGAGCTTGTCTCC 72  
Db 1 TGAACGCTGGCGCAGGCTTAAACACATCGAAGTCGAGCGGTAAACAGGGAGCTTGTCTCC 58  
Qy 73 TGTCTACGAGCGCGGACGCGGTAGTAACGCGTAGGAATCTGCTAGTAGAGGGGACAA 132  
Db 59 TGAATTC - AGCGCGGACGCGGTAGTAACGCGTAGGAATCTGCTAGTAGAGGGGACAA 117  
Qy 133 CATGTGGAACCATGCTTAATACCGCATACGCCCTGAGGGGAAAGAGGGGACCTTCG 192  
Db 118 CGTCTCGAAGGAGCGCTAATACCGCATACGCTCTACGGGAGAAAGACGGGA - CCTTC 175  
Qy 193 GAGCCTTCGCTATTAGATGAGCCTCGGTAGATAGCTAGTGTAGGTAAAGGCCCTA 252  
Db 176 GGGCCTTCGCTATTAGATGAGCCTCGGTAGTGTAGGTAAAGGCCCTA 235  
Qy 253 CCAAGCGCAGCATCTCTAATCTGTGAGAGATGACCACTCAGTCACACTGGGACTGAGACAC 312  
Db 236 CCAAGCGCAGCATCTCTAATCTGTGAGAGATGATCAGTCACACTGGGACTGAGACAC 295  
Qy 313 GCGCCAGACTCTCTACGGGAGGACGAGTGGGAAATTTGGACAATGGGCGCAAGCTGAT 372  
Db 296 GGTCCAGACTCTCTACGGGAGGACGAGTGGGAAATTTGGACAATGGGCGCAAGCTGAT 355  
Qy 373 CCAGCCATGCCGCTGTGTGAAGAGGCTTAGGCTTGTAAAGCACTTTAGGTTGGGAGG 432  
Db 356 CAGCCATGCCGCTGTGTGAAGAGGCTTAGGCTTGTAAAGCACTTTAGGTTGGGAGG 415  
Qy 433 AAGGTGATAGGTTAATACGTTATCATCTTGACGTTAGTCCCGCAGAAAGACACCGCTAA 492  
Db 416 AAGGCACTTAACCTAATACGTTAGTGTGTTGACGTTACGACAGAAATGAACCGGCTAA 475  
Qy 493 CTCTGTGCGCAGGCGCGGTAAATACAGAGGTGCAAGCTTAAATCGGAAATTTACTGGGCG 552  
Db 476 CTCTGTGCGCAGGCGCGGTAAATACAGAGGTGCAAGCTTAAATCGGAAATTTACTGGGCG 535  
Qy 553 TAAAGCGCGGTAGTGTGTTTAAAGTCGATGTGAATCCAGGGCTCAACCTTGAA 612  
Db 536 TAAAGCGCGGTAGTGTGTTTAAAGTCGATGTGAATCCAGGGCTCAACCTTGAA 595  
Qy 613 TGGCACCCGATPACTGGCTAGTATGTAGAGGCTGTGGAATTTCTGTGTAGCG 672  
Db 596 CTGCATTCAAACTGACAACTAGATGTAGTGTAGAGGTGTGGAATTTCTGTGTAGCG 655  
Qy 673 GTGAAATGCGTAGATATAGGAAGGAAATCAGTGGGAGGCGACACCTCGGACTAATAC 732  
Db 656 GTGAAATGCGTAGATATAGGAAGGAAATCAGTGGGAGGCGACACCTCGGACTAATAC 715  
Qy 733 TGACACTGAGTGGGAAAGCGTGGGAGCAACAGGATTAGATACCTGTGTAGTCCAGCG 792  
Db 716 TGACACTGAGTGGGAAAGCGTGGGAGCAACAGGATTAGATACCTGTGTAGTCCAGCG 775  
Qy 793 CGTAAACGATGTCTACTAGCGCTTGG - GTTGTAAATGACTTAGTGGGCGCAGTAAACGCAA 850  
Db 776 CGTAAACGATGTCTACTAGCGCTTGGGAGCTTGTAGCTCTTAGTGGCGCAGCTAACGCAT 835  
Qy 851 TAAAGTACCGCTGGGAGTACGCGCGAAGGTTAAAACTCAAAATGAATTTGACGGGGC 910  
Db 836 TAAAGTTGACCGCTGGGAGTACGCGCGCAAGGTTAAAACTCAAAATGAATTTGACGGGGC 895  
Qy 911 CCGCACAAAGCGGTGGAGCATGTGGTTAAATTCGAAGCAACGCGAAGAACTTTACTACTC 970  
Db 896 CCGCACAAAGCGGTGGAGCATGTGGTTAAATTCGAAGCAACGCGAAGAACTTTACTACTC 955  
Qy 971 TTGACATCCACAGAACTTTGAGAGATCAGATGGTGGCTTCCGGAACTGTGAGACAGGTG 1030  
Db 956 TTGACATCCAAATGAATTTCCAGAGATGATGGTGGCTTCCGGAACTGTGAGACAGGTG 1015  
Qy 1031 CTGCATGGCTGTGCTCAGCTGTGTGTGAAATGTGGGTTAAGTCCCGTAAACGAGCGCA 1090  
Db 1016 CTGCATGGCTGTGCTCAGCTGTGTGTGAAATGTGGGTTAAGTCCCGTAAACGAGCGCA 1075  
Qy 1091 ACCCTTGTCTTATTTGTCAGCAGCATGATGGTGGAACTTTTAAAGAGACTGCGCGTGACA 1150

Db 1076 ACCCTTGCTCTAGTTACAGACGATGATGGGCACTCTAAGAGACTGCCGCTGACA 1135  
Qy 1151 AACCGAGGAGGTTGGGACGACGCTCAAGTCAATCATGCGCCCTTACGATGAGGCTACACA 1210  
Db 1136 AACCGAGGAGGTTGGGATGACGCTCAAGTCAATCATGCGCCCTTACGCGCTGGGCTACACA 1195  
Qy 1211 CGTGCTACATGCGGCTATACAGAGGCTGCAAGCTAGCATAGTGAAGGATCCACAAA 1270  
Db 1196 CGTGCTACATGCGGCTATACAGAGGTTGCCAAGCGCGAGGTGAGCTTAATCCACAAA 1255  
Qy 1271 GTAAGTGTAGTCCGATGGAAGTCTGCAACTCGACTCCATCAAGTTCGGAATCGCTAGTA 1330  
Db 1256 ACCGATGTAGTCCGATGCGAGTCTGCAACTCGACTCGCTGCTGAGTTCGGAATCGCTAGTA 1315  
Qy 1331 ATCGTGAATCAGAATGTCAAGTGAATACGTTCCCGGCGCTTGTACACACCGCGCTAC 1390  
Db 1316 ATCGGGAATCAGAATGTCCGCTGAATACGTTCCCGGCGCTTGTACACACCGCGCTAC 1375  
Qy 1391 ACCATGGGAGTTGATGCTCCAGAGTGTAGCTTAACCTTCGGGGATGCGGTTACC 1450  
Db 1376 ACCATGGGAGTTGATGCTCCAGAGTGTAGCTTAACCTTCGGGGATGCGGTTACC 1433  
Qy 1451 ACGGAGTGTCAATGACTCGGGTTGAAGTCTAC 1483  
Db 1434 ACGTGTGATTCATGACTGGGTTGAAGTCTAC 1466

RESULT 4  
US-09-748-205-1  
; Sequence 1, Application US/09748205  
; Patent No. 6586562  
; GENERAL INFORMATION:  
; APPLICANT: Canon Inc.  
; TITLE OF INVENTION: Polyhydroxyalkanoate its manufacturing method, and microorganism  
; TITLE OF INVENTION: those are used for the method.  
; FILE REFERENCE: 4351009  
; CURRENT APPLICATION NUMBER: US/09/748,205  
; CURRENT FILING DATE: 2000-12-27  
; NUMBER OF SEQ ID NOS: 1  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii 161 strain.  
US-09-748-205-1

Query Match 76.1%; Score 1131; DB 4; Length 1501;  
Best Local Similarity 88.2%; Pred. No. 0;  
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

Qy 13 TGAACGCTGCGGACGCTTAACACATGCAAGTTCGAGCGGTAAACGAGGAGCTTGCTCC 72  
Db 1 TGAACGCTGCGGACGCTTAACACATGCAAGTTCGAGCGGTAAACGAGGAGCTTGCTCC 58  
Qy 73 TGTGACGAGCGGCGGACGCTGAGTAAACGCTGAGGAATCTGCTAGTAGAGGGGACAA 132  
Db 59 TGAATTC-ACGCGCGAGCGGTGAGTAAATGCTAGGAATCTGCTGCTGAGTGGGACAA 117  
Qy 133 CATGTGAAACGATGCTAATACCGCATACGCTTGAAGGGGAAAGAGGGGACTCTTCG 192  
Db 118 CGTCTGAAAGGACGCTAATACCGCATACGCTTGAAGGGGAAAGAGGGGAA--CCTTC 175  
Qy 193 GAGCCTTCGCTATTAGATGAGCTGCTGAGATGATGCTAGTGGGTAAAGGCTA 252  
Db 176 GGGCTTTGCGCTATCAGATGAGCTTAGTTCGATGATGCTAGTGGGTAAAGGCTA 235  
Qy 253 CCAAGCGGACGATCTCTAACTGGTCTGAGAGGATGACAGCTCACACTGGGCTGAGACAC 312  
Db 236 CCAAGCGGACGATCCGTAACCTGGTCTGAGAGGATGATCAGTCACTGGAATGAGACAC 295  
Qy 313 GGCCACAGCTCTTACGGGAGGAGCAGTGGGGAATATTTGACCAATGGCGCAAGCCTGAT 372  
Db 296 GGTCCAGACTCCTTACGGGAGGAGCAGTGGGGAATATTTGACCAATGGCGCAAGCCTGAT 355

Qy 373 CCAGCCATGCGCGCTGTGTGAAGAGGCTTTAGGTTGTAAAGCACTTTTCAGGGGTGAGG 432  
Db 356 CCAGCCATGCGCGCTGTGTGAAGAGGCTTTCCGATTGTAAAGCACTTTTAAGTTGGGAGG 415  
Qy 433 AAGGTGATAGGTTAATACGTTATCATCTTGACGTTAGCCCCAGAGGACACCGGCTAA 492  
Db 416 AAGGCAATTAACCTAATACGTTAGTGTGTTGACGTTACCGACAGAAATTAAGACACCGGCTAA 475  
Qy 493 CTCTGTGCGAGCAGCGCGCTTAATACAGAGGTCGAAGCTTAATCGGAAATTTACTTGGCG 552  
Db 476 CTCTGTGCGAGCAGCGCGCTTAATACAGAGGTCGAAGCTTAATCGGAAATTTACTTGGCG 535  
Qy 553 TAAAGCGCGCTAGTGGTGTGTTAAGTCGGAATGGAATCCAGGGCTCAACCTTGGAA 612  
Db 536 TAAAGCGCGCTAGTGGTGTGTTAAGTCGGAATGGAAGCCCGCGGCTCAACCTTGGAA 595  
Qy 613 TGCGACCCGATCTAGTGGTGTAGTATGTTAGAGGGGTGGAATTTCTGTGTAGCG 672  
Db 596 CTGCAATCAAACTCAGCAAGCTAGAGTATGTTAGAGGGTGGTGAATTTCTGTGTAGCG 655  
Qy 673 GTGAAATGCTAGATATAGGAAGGAAACATCAGTGGCGAAGCGCACACCTTGGACTAATAC 732  
Db 656 GTGAAATGCTAGATATAGGAAGGAAACATCAGTGGCGAAGCGCACACCTTGGACTAATAC 715  
Qy 733 TGACACTGAGTGCAGAAACGCTGGGAGCAAAACAGGATTAGATATCCCTGTGTAGTCCACGC 792  
Db 716 TGACACTGAGTGCAGAAACGCTGGGAGCAAAACAGGATTAGATATCCCTGTGTAGTCCACGC 775  
Qy 793 CGTAAACGATGTCTACTAGCGCTTG--GTTGTAATGACTTGTAGTGGCGAGCTTAACGCAA 850  
Db 776 CGTAAACGATGTCAACTAGCGCTTGGAGCCTTTAGTGTGGCGAGCTTAACGCAAT 835  
Qy 851 TAAAGTAGACCGCTGGGAGTACGCGCGCAAGGTTAAAACTCAAATGAAATGACGGGGC 910  
Db 836 TAAAGTAGACCGCTGGGAGTACGCGCGCAAGGTTAAAACTCAAATGAAATGACGGGGC 895  
Qy 911 CGGCAACAGCGGTGGAGCATGTGTTTAAATTCGAAGCAACGCGAAGCACTTACCTACTC 970  
Db 896 CGGCAACAGCGGTGGAGCATGTGTTTAAATTCGAAGCAACGCGAAGCACTTACCTACTC 955  
Qy 971 TTGACATCCACAGAACATTTGAGATCAGATGCTGCTTCCGGAACTGTGAGACAGGTG 1030  
Db 956 TTGACATCCAAATGAACTTCCAGAGATGGAATGGTGTGCTTCCGGAACTGTGAGACAGGTG 1015  
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Db 1016 CTGCATGGCTGTCTGTCAGCTCGTGTGTCGTGAGATGTTGGGTTAAGTCCCGTAAACGAGCGCA 1075  
Qy 1091 ACCCTTGTCTTATTTGCGACGACGTAATGGTGGGAACTTTAAGGAGACTGCCGCTGACA 1150  
Db 1076 ACCCTTGTCTTATTTGCGACGACGTAATGGTGGGCACTCTAAGGAGACTGCCGCTGACA 1135  
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Qy 1271 GTACGCTAGTCCGGAATGAGTCTGCAACTCGACTCATGAGTCCGGAATCGCTAGTA 1330  
Db 1256 ACCGATCGTGTAGTCCGGAATGAGTCTGCAACTCGACTCATGAGTCCGGAATCGCTAGTA 1315  
Qy 1331 ATCGTGAATCAGAAATGTCAGGTTGAATACGTTCCCGGGCCCTTGTACACACCGCCCGTCAAC 1390  
Db 1316 ATCGGGAATCAGAAATGTCGCGGTGAATACGTTCCCGGGCCCTTGTACACACCGCCCGTCAAC 1375  
Qy 1391 ACCATGGGAGTTGATGCTCCAGAGTGTAGCTTAACCTTCGGGGATGCGGCTTACC 1450  
Db 1376 ACCATGGGAGTTGATGCTCCAGAGTGTAGCTTAACCTTCGGGGATGCGGCTTACC 1433



Query Match 76.1%; Score 1131; DB 4; Length 1501;  
Best Local Similarity 88.2%; Pred. No. 0;  
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

13 TGAACGCTGGCGGAGCTTAAACACATGCAAGTGCAGCGTAAACAGGGAGCTTGTCTCC 72  
1 TGAACGCTGGCGGAGCTTAAACACATGCAAGTGCAGCGTAAACAGGGAGCTTGTCTCC 58  
73 TGCTGACGAGCGCGGAGCGGTGAGTAACCGTAGAATCTCCCTAGTAGAGGGGACAA 132  
59 TGAATTC-AGCGGCGAGCGGTGAGTAATGCTTAGAATCTCCCTGTTAGTGGGGACAA 117  
133 CATGTGGAACGATCTTAATACCGCATAGCGCTGAGGGGAAAGAGGGAGCTTCTCG 192  
118 CGTCTCGAAAGGAGCTTAATACCGCATAGCGCTGAGGGGAAAGAGGGAGCTTCTCG 175  
193 GAGCGCTTCGCTATTAGATGAGCGCTGAGATGAGTGTAGTGTAGGTAAAGCCTTA 252  
176 GGGCGCTTCGCTATCAGATGAGCGCTAGGTGCGATTAGTGTAGGTAAAGCCTTA 235  
253 CCAAGCGGAGCTTCTTAATCGTCTGAGAGGATGAGTGTAGTGTAGGTAAAGCCTTA 312  
236 CCAAGCGGAGCTTCTTAATCGTCTGAGAGGATGAGTGTAGTGTAGGTAAAGCCTTA 295  
313 GGGCGAGCTTCTACCGGAGGAGCGGTGAGGATGAGTGTAGTGTAGGTAAAGCCTTA 372  
296 GGTCCAGAGCTTCTACCGGAGGAGCGGTGAGGATGAGTGTAGTGTAGGTAAAGCCTTA 355  
373 CAGGCGATCGCGGTCTGTAAGAGCGCTTACGGGTGTAAAGCCTTTCAGGGGTGAGG 432  
356 CAGGCGATCGCGGTCTGTAAGAGCGCTTTCGGATGTAAAGCCTTTCAGGGGTGAGG 415  
433 AAGGGGTAGTGTATACCTTATCATCTTGTAGCGTGTAGCGGAGGAGGAGGAGGAGTAA 492  
416 AAGGGGTATTAACCTTATACCTTGTAGCGTGTAGCGGAGGAGGAGGAGGAGTAA 475  
493 CTCTGTCCAGGAGCGCGGTATACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 552  
476 CTCTGTCCAGGAGCGCGGTATACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 535  
553 TAAAGCGCGGTAGGT 612  
536 TAAAGCGCGGTAGGT 595  
613 TGGCACCAGATCTGGCTAGCTAGTATGTTAGTGTGTGTGTGTGTGTGTGTGTGTGTGT 672  
596 CTGCATTCAAACTGCAAGCTAGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 655  
673 GTGAATGCTGTAGATATAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 732  
656 GTGAATGCTGTAGATATAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 715  
733 TGACACTGAGTGTGGAAGCGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 792  
716 TGACACTGAGTGTGGAAGCGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 775  
793 CGTAAACGATCTACTAGCGGT 850  
776 CGTAAACGATCTACTAGCGGT 835  
851 TAAGTAGACCGCTTGGGAGTACGCGCGCAAGGTTTAAACCTCAATGAATTTGACGGGGC 910

836 TAACTTACCGCTTGGGAGTACGCGCGCAAGGTTTAAACCTCAATGAATTTGACGGGGC 895  
911 CCGCACAAGCGGTGAGCATGT 970  
896 CCGCACAAGCGGTGAGCATGT 955  
971 TTGACATCCACAGAACATTTTGAGAGATCAGATGTGTGTGTGTGTGTGTGTGTGTGTGT 1030  
956 TTGACATCCATGAACCTTTCCAGAGATGATGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1015  
1031 CTGCATGCTGT 1090  
1016 CTGCATGCTGT 1075  
1091 ACCCTTGTCTTATTTTGCAGCACGTAATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1150  
1076 ACCCTTGTCTTATTTTGCAGCACGTAATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1135  
1151 AACCGAGGAGGAGGTGGGAGCGACGCTCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1210  
1136 AACCGAGGAGGAGGTGGGAGCGACGCTCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1195  
1211 COTGTCTACATGCGGTATACAGAGGCTGCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1270  
1196 COTGTCTACATGCGGTATACAGAGGCTGCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1255  
1271 GTACGT 1330  
1256 ACCGATGT 1315  
1331 ATCGTGAATCAGAAATGTACGCTGTAATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1390  
1316 ATCGGGAATCAGAAATGT 1375  
1391 ACATCGGAGT 1450  
1376 ACCATGGGAGT 1433  
1451 ACGGAGT 1483  
1434 ACGGAGT 1466

RESULT 7  
US-08-114-695A-6  
; Sequence 6, Application US/08114695A  
; Patent No. 5508193  
; GENERAL INFORMATION:  
; APPLICANT: Mandelbaum, Raphael T.  
; APPLICANT: Wackett, Lawrence P.  
; TITLE OF INVENTION: DEGRADATION OF S-TRIAZINES IN SOIL AND  
; TITLE OF INVENTION: WATER  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SCHWEGMAN, LUNDBERG & WOESSNER, P.A.  
; STREET: 3500 IDS CENTER  
; CITY: MINNEAPOLIS  
; STATE: MN  
; COUNTRY: USA  
; ZIP: 55402  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/114,695A  
; FILING DATE: 31-AUG-1993  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: MUEITING, ANN M.  
; REGISTRATION NUMBER: 33,977



QY 81 AGCGGCGGACGGTGAGTAACGCGTAGGAATCTGCCCTAGTAGAGGGGGACAACATGTGGA 140

Db 26 AGCGCGGACGGGTGAGTAATGCGCTAGGAATCTGCTGATAGTGGGACAACTGTTGGA 85  
Qy 141 AACGATCTAATACCGCATACGCCCTGAGGGGAAAGAGGAGGACTCTTCGGAGCCTTC 200  
Db 86 AAGGAAACGCTAATACCGCATACGCTCTACGGGAGAAAGACAGGGGA - CCITTCGGGCTTG 143  
Qy 201 CGCTATTAGATGAGCCTCGGTGAGATTAAGTCTAGTTGTTAGGTAGGTAAGGCTTACCAAGGCG 260  
Db 144 CGCTATCAGATGAGCCTAGGTGAGTATGAGTTGGTGAAGTAACGGCTCACCAAGGCG 203  
Qy 261 ACGATCTCTAATCTGCTGAGAGGATGACCACTGACACTGGGACTGAGACAGGCCCGCAGA 320  
Db 204 ACGATCCGTAATCTGCTGAGAGGATGATCACTGGAATCTGAGACAGCGTCCAGA 263  
Qy 321 CTCCTACGGGAGGACGAGTGGGGAATATTTGGAATGAGGCGCAAGCCTGATCCAGCCAT 380  
Db 264 CTCCTACGGGAGGACGAGTGGGGAATATTTGGAATGAGGCGCAAGCCTGATCCAGCCAT 323  
Qy 381 GCGCGTGTGTGAAGAGCCTTAGGTTGTAAAGCACTTTTCAGGGGTGAGGAAGGTTGA 440  
Db 324 GCGCGTGTGTGAAGAGTCTTCGGAATTTGAAGCACTTTTAAGTTGGAGGAAGGCGAT 383  
Qy 441 TAGGTTAATACGTTATCATCTTTGAGTTAGCCCGCAGAGACACCGGCTAACTCTGTGC 500  
Db 384 TAACCTAATACGTTAGTTGAGCGTTACCGACAGATAAGCAACCGGCTAACTCTGTGC 443  
Qy 501 CAGCAGCGCGGTAAATACAGAGGGTGAAGCGTTAATCGGAATTAATCGGCGGTAAAGCGC 560  
Db 444 CAGCAGCGCGGTAAATACAGAGGGTGAAGCGTTAATCGGAATTAATCGGCGGTAAAGCGC 503  
Qy 561 GCGTAGGTGTTGTTAAGTCCGATGTAATCCAGGGCTCAACCTTCGGAATGGCACCC 620  
Db 504 GCGTAGGTGTTGTTAAGTCCGATGTAATCCAGGGCTCAACCTTCGGAATGGCACCC 563  
Qy 621 GATACCTAGCTAGATGATGTAGAGGGGTGTGGAATTTCTGTGTAGCGGTGAATG 680  
Db 564 AAAAATGCGCAAGCTAGATGTCAGAGGGGTGTGGAATTTCTGTGTAGCGGTGAATG 623  
Qy 681 CBTAGATATAGGAAGAAATCATAGTGGGAGGCGACACCTGGACTAATACGACATG 740  
Db 624 CBTAGATATAGGAAGAAATCATAGTGGGAGGCGACACCTGGACTAATACGACATG 683  
Qy 741 AGGTGCGAAGCTGGGAGCAACAGGATTAGATACCTGTGTAGTCCAGCGCGTAAACG 800  
Db 684 AGGTGCGAAGCTGGGAGCAACAGGATTAGATACCTGTGTAGTCCAGCGCGTAAACG 743  
Qy 801 ATGCTACTAGCCGTTGGGTTG - TAATGACTTTAGTGGCGCAGCTAAACGCAATAGTAGA 858  
Db 744 ATGTCGACTAGCCGTTGGGATCCTTGAGATCTTTAGTGGCGCAGCTAAACGCAATAGTAGA 803  
Qy 859 CCGCCTGGGAGTACCGCCGCAAGGTTAAACTCAATGAAATGACGGGGCGCGCACAA 918  
Db 804 CCGCCTGGGAGTACCGCCGCTAGGTTAAACTCTAATGAAATGACGGGGCGCGCACAA 863  
Qy 919 GCGGTGAGCATGTTGTTAATTTGAGAGCAACGGAACCTTACCTACTTTGACATC 978  
Db 864 GCGGTGAGCATGTTGTTAATTTGAGAGCAACGGAACCTTACCTACTTTGACATG 923  
Qy 979 CACAGAACTTTGAGAGATCAGATGTTGCTTCGGGAACTGTGAGACAGGTGCTGATGG 1038  
Db 924 CAGGAACTTTCCAGAGATGGAATGTTGCTTCGGGAACTGTGAGACAGGTGCTGATGG 983  
Qy 1039 CTGTGTCGACTGTTGTTGAAATGTTGGTTAAGTCCGTTAACGAGCGCAACCTTGT 1098  
Db 984 CTGTGTCGACTGTTGTTGAAATGTTGGTTAAGTCCGTTAACGAGCGCAACCTTGT 1043  
Qy 1099 CCTTATTTGCGACGACGTAATGTTGGGAACTTTTAAGGAGAGCTGCGCGGTGACAAACCGGAG 1158  
Db 1044 CCTTATTTGCGACGACGTAATGTTGGGAACTTTTAAGGAGAGCTGCGCGGTGACAAACCGGAG 1103  
Qy 1159 GAAGGTGGGAGCAGCTCAAGTCAATGAGGCTTACGAGTAGGGCTTACACAGGTGTAC 1218

Db 1104 GAAGGTGGGAGTACGCTCAAGTCAATCATGGCCCTTACGGCTACACACAGTGTAC 1163  
Qy 1219 AATGGCGGTATACAGAGGGCTGCAAGCTAGCATAGTAGCGAATCCCAAAAGTACGTGC 1278  
Db 1164 AATGGTCGTACAAAGGGTTGCCAAGCGCGAGGTGGAGCTAATCCCAATAAAACCGATCG 1223  
Qy 1279 TAGTCGGGATTTGAGTCTGCAACTCGACTCATGAAGTCCGAATCGCTAGTAATCGTGAA 1338  
Db 1224 TAGTCGGGATCGAGTCTGCAACTCGACTCATGAAGTCCGAATCGCTAGTAATCGTGAA 1283  
Qy 1339 TCAGAAATGTCACGGTGAATAGTTCCTCGGGCTTTGTACACACCGCCCTCACACCATGGG 1398  
Db 1284 TCAGAAATGTCACGGTGAATAGTTCCTCGGGCTTTGTACACACCGCCCTCACACCATGGG 1343  
Qy 1399 AGTTGATTTCTCCAGAGTACTAGCTTAAACCTTCGGGGATGCGGTTACACCGAGTG 1458  
Db 1344 AGTGGTTTCTCCAGAGTACTAGCTTAAACCTTCGGGGG - GACGGTTTACCACGAGGT 1401  
Qy 1459 GTCAATGACTGGGT 1473  
Db 1402 ATTCATGACTGGGT 1416

RESULT 9  
US-09-726-774-14  
; Sequence 14, Application US/09726774  
; Patent No. 6677153  
; GENERAL INFORMATION:  
; APPLICANT: Iversen, Patrick L.  
; TITLE OF INVENTION: Antisense Antibacterial Method and  
; TITLE OF INVENTION: Composition  
; FILE REFERENCE: 0450-0032.30  
; CURRENT APPLICATION NUMBER: US/09/726,774  
; PRIOR FILING DATE: 2000-11-29  
; PRIOR APPLICATION NUMBER: US 60/168,150  
; PRIOR FILING DATE: 1999-11-29  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14  
; LENGTH: 1487  
; TYPE: DNA  
; ORGANISM: Shigella dysenteriae  
US-09-726-774-14

Query Match 71.8%; Score 1067.2; DB 4; Length 1487;  
Best Local Similarity 85.8%; Pred. No. 0;  
Matches 1267; Conservative 0; Mismatches 198; Indels 11; Gaps 7;

Qy 3 TAGCTCAGATTGAACCTGCGCGGAGGCTTAAACATCAAGTCCGAGCGGTAAACAGG - 60  
Db 1 TGGCTCAGATTGAACCTGCGCGGAGGCTTAAACATCAAGTCCGAGCGGTAAACAGAA 59  
Qy 61 GGAGCTTGTCTCC - TGTCTAGCAGCGCGGAGGCTTAAACATCAAGTCCGAGCGGTAGGAATCTGCTAG 119  
Db 60 GCAGCTTGTCTTGTCTGACGAGTGGGAGCGGCTGAGTAACTGTCTGGGAAACTGCTGA 119  
Qy 120 TAGAGGGGACAACTGTGGAACCGCATGTAATACCGATACGCCCTTAGGGGGAAAG 179  
Db 120 TGGAGGGGATAACTACTGGAACCGGTAGCTAATACCGATACGCCCTTAGGGGGAAAG 179  
Qy 180 AGGGGACTCTTCGAGGCTTCCTTATAGATGAGCTGCTGAGATTAGCTAGTTGGTA 239  
Db 180 GGGGGA - CCTTCGGGCTTCTGCCATCGGATGTCCTGAGAGGATGACGAGCCACT 237  
Qy 240 GGGTAAAGGCTTACCAAGCGGAGTCTCTAACTGCTGAGAGGATGACGAGTCACT 299  
Db 238 GGGTAAAGGCTTACCAAGCGGAGTCTCTAACTGCTGAGAGGATGACGAGCCACT 297  
Qy 300 GGGTAAAGGCTTACCAAGCGGAGTCTCTAACTGCTGAGAGGATGACGAGTCACT 359  
Db 298 GGGTAAAGGCTTACCAAGCGGAGTCTCTAACTGCTGAGAGGATGACGAGTCACT 357  
Qy 360 GCGCAAGCCTGATCCAGCCATGCGCGTGTGTGAAAGGCGCTTAGGGTTGTAAAGCACT 419

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Db 358 GCGAAGCTGATGACGACCATCGCGTGTATGAAGAGCGCTTCGGTGTAAAGTACT 1417
QY 420 TTCAGGGGTGAGGAGGGGTATAGGTATTAATACGTTATCATCTTGAGCTTAGCCGAGAG 479
Db 418 TTCAGCGGGAGGAGGAGTAAAGTTAATACCTTTGCTCATGTAGCTTACCGCGAGAG 477
QY 480 AAGCACCCTAACTCTGTGCCAGACGCGCGGTAAATACAGAGGGTGCAGAGGTTAAATCG 539
Db 478 AAGCACCCTAACTCTGTGCCAGACGCGCGGTAAATACAGAGGGTGCAGAGGTTAAATCG 537
QY 540 GAATTTACTGGGCGTAAAGCGCGGTAGGTGTTTAAAGTGGATGTGAATCCAGCG 599
Db 538 GAATTTACTGGGCGTAAAGCGCGGTAGGTGTTTAAAGTGGATGTGAATCCAGCG 597
QY 600 CTCACCTTGGAAATGGCACCCGATCTGCTAGCTAGATGATGTAGAGGGTGGAT 659
Db 598 CTCACCTTGGAAATGGCACCCGATCTGCTAGCTAGATGATGTAGAGGGTGGAT 657
QY 660 TTCCTGTGTAGCGGTGAATCGTAGATATATAGGAAGGAACATCAGTGGCGAAGCGAC 719
Db 658 TCCAGGTGTAGCGGTGAATCGTAGATATCTGGAGGAATACCGGTGGCGAAGCGGCC 717
QY 720 CTTGACCTAATACCTGACACTGAGTGCAGAGCGGTGGAGGAGCAACAGATTAGATACC 779
Db 718 CTTGACCTAATACCTGACACTGAGTGCAGAGCGGTGGAGGAGCAACAGATTAGATACC 777
QY 780 TGTGTAGTCCAGCGGTAAACCATGTCTACTAGCGG--TTGGGTTCTATGACTTAGTGGC 837
Db 778 TGTGTAGTCCAGCGGTAAACCATGTCTACTAGCGG--TTGGGTTCTATGACTTAGTGGC 837
QY 838 GCAGCTAACCGAATAGTGTAGACCGCTGGGGAGTACGCGCCGCAAGGTTAAACCTCAAATG 897
Db 838 GGAGCTAACCGGTTAAGTGTAGACCGCTGGGGAGTACGCGCCGCAAGGTTAAACCTCAAATG 897
QY 898 AATTGACGGGGCCCGCACAGCGGTGGAGCATGTGGTTTAAATTCGAAGCAACCGCAAGA 957
Db 898 AATTGACGGGGCCCGCACAGCGGTGGAGCATGTGGTTTAAATTCGAAGCAACCGCAAGA 957
QY 958 ACCTTACTACTCTTGACATCCACAGAACATTTTACAGAGATCAGATGTCCTTCGGGAC 1017
Db 958 ACCTTACTCTTGACATCCACAGAACCTTTGAGAGATACGAGGGTGCCTTCGGGAC 1017
QY 1018 TGTGAGACAGGTGTGATGCTGTGCTGAGCTGCTGTGTGTAATGTTGGGTTAAGTCC 1077
Db 1018 TGTGAGACAGGTGTGATGCTGTGCTGAGCTGCTGTGTGTAATGTTGGGTTAAGTCC 1077
QY 1078 CGTAAACGAGCGCAACCTTCTCTTATTTTCCAGCAGCTAATGTTGGGAACTTTAAGGAG 1137
Db 1078 CGCAACGAGCGCAACCTTCTCTTATTTTCCAGC--GGTCCGCGCGGAACTCAAAGGAG 1136
QY 1138 ACTGCCGCTGACAAACCGGAGGAGGTGGGAGCAGCTCAAGTCACTATGCTGCTTACGA 1197
Db 1137 ACTGCCAGTGATAAATCGGAGGAGGTGGGAGTGAAGTCAAGTCACTATGCTGCTTACGA 1196
QY 1198 GTAGGGCTACACGCTGTCAATATGCGGTATACAGAGGGTGCAGGCTAGGATAGTGA 1257
Db 1197 CCAGGGCTACACGCTGTCAATATGCGGTATACAGAGGAGGAGCTCCGAGAGCAAG 1256
QY 1258 CGAATCCCAAGTACGCTGAGTCCGATTTGGAGTGTGAGTCTGCAATCTGCTCCATGAAGTC 1317
Db 1257 CGAATCCCAAGTACGCTGAGTCCGATTTGGAGTGTGAGTCTGCAATCTGCTCCATGAAGTC 1316
QY 1318 GGAATCGCTAGTAAATCGTGAATCAGAAATGTCAGGTGAATACGTTCCCGGGCTTGTACA 1377
Db 1317 GGAATCGCTAGTAAATCGTGAATCAGAAATGTCAGGTGAATACGTTCCCGGGCTTGTACA 1376
QY 1378 CACCGCCCTGCACCATGGAGTTGATTTGCTCCAGAGTGTAGTCTTAAACCTTCGGG 1437
Db 1377 CACCGCCCTGCACCATGGAGTTGATTTGCTCCAGAGTGTAGTCTTAAACCTTCGGG 1437
QY 1438 GATGGCGGTACACCGAGTGGTCAATGACTGGGT 1473
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Db 1435 GAGGGCGCTTACCACCTTGTGATTCATGACTGGGT 1470

## RESULT 10

US-09-726-774-4  
; Sequence 4, Application US/09726774  
; Patent No. 667153  
; GENERAL INFORMATION:  
; APPLICANT: Iversen, Patrick L.  
; TITLE OF INVENTION: Antisense Antibacterial Method and  
; FILE OF INVENTION: Composition  
; FILE REFERENCE: 0450-0032.30  
; CURRENT APPLICATION NUMBER: US/09/726,774  
; CURRENT FILING DATE: 2000-11-29  
; PRIOR APPLICATION NUMBER: US 60/168,150  
; FILING DATE: 1999-11-29  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 1500  
; TYPE: DNA  
; ORGANISM: Vibrio cholera  
US-09-726-774-4

Query Match 71.7%; Score 1065.4; DB 4; Length 1500;  
Best Local Similarity 84.9%; Pred. No. 0;  
Matches 1249; Conservative 4; Mismatches 205; Indels 13; Gaps 5;

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QY 11 ATTGAACGCTGCGCGCAGGCTTAAACACATCATGCAAGTGCAGCGGTAAACAGGGAGCTTCT 70
Db 1 ATTGAACGCTGCGCGCAGGCTTAAACACATCATGCAAGTGCAGCGGTAAACATTTCAAGCTT 59
QY 71 CCT-----GCTGACGAGCGCGGACCGGTGAGTAAACCGCTAGCAATCTGCTAGTAGAG 124
Db 60 GCTTTTGAAGATGACGAGCGCGGAGTAAATGCTGGGAACTTGCCTGACGTG 119
QY 125 GGGGACAACTGTGAAACGATCTTAATACCGCATACGCTGAGGGGAAAGAGGGG 184
Db 120 GGGGATTAACAGTTGGAAACGATCTTAATACCGCATGATGTTTACGACCAAGAGGGG 179
QY 185 ACTCTCGGAGCCTTCCGCTATTAGATAGCTGCGTGAAGAGGCTTAGGCTTAAAGCACTTTCAG 244
Db 180 A--TYTTCGACATYTCGCTCGGATGGGCCAGTTGGGATAGCTAGTTGGTGGGTA 237
QY 245 AAGGCTTACCAAGCGGACGATCTTAATCTGAGAGGATGACCACTCAGTCACTGGGAC 304
Db 238 ATGGCTCACCAAGCGGACGATCTTACGTTGAGAGGATGATCAGCCACTGGAAC 297
QY 305 TGAGACACGCGCCAGACTCTTACGAGGAGCAGCAGTGGGGAATATTGGCAATGGGGCGCA 364
Db 298 TGAGACACGCTCAGACTCTTACGAGGAGCAGCAGTGGGGAATATTGGCAATGGGGCGCA 357
QY 365 AGCCTGATCCAGCATCGCGCTGTGTGAAGAGGCTTAGGCTTAAAGCACTTTCAG 424
Db 358 AGCCTGATCCAGCATCGCGCTGTGTGAAGAGGCTTAGGCTTAAAGCACTTTCAG 417
QY 425 GGTGTAGAGAGGTGATGATTAATATGATTCATCTTACGCTTAGCCCCAGAGCAAGCA 484
Db 418 CAGTGAAGAGGTGATGATTAATATGATTCATCTTACGCTTAGCCCCAGAGCAAGCA 477
QY 485 CCGGCTAATCTTGTCCAGCAGCGCGGTAAATACAGAGGTGCAAGGTTAATCGGAAT 544
Db 478 CCGGCTAATCTTGTCCAGCAGCGCGGTAAATACAGAGGTGCAAGGTTAATCGGAAT 537
QY 545 ACTGGCGGTAAAGCGCGCTAGTGTGTTTAAAGTTCGATGTGAATCCAGGGCTCAA 604
Db 538 ACTGGCGGTAAAGCGCATGTCAGCGGTGTTTAAAGCAAGATGTGAAGCCCCGGGCTCAA 597
QY 605 CTTTGAATGGCACCCGATCTGCTAGTGTAGAGGAGGTGAGGATTTCT 664
Db 598 CTTTGAATGGCACCCGATTTTGAATCTGGCAGGCTAGAGTCTTGTAGAGGGGTGAGGATTTCT 657
QY 665 GTGTAGCGGTGAATGCGGTAGATATAGGAAGCAATCATGATGGCGAAGCGCACCTGG 724
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ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/757,653
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Ingolia, Diane E.
REGISTRATION NUMBER: 40,027
REFERENCE/DOCKET NUMBER: FORS-02565
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 705-8410
TELEFAX: (415) 397-8338
INFORMATION FOR SEQ ID NO: 158:
SEQUENCE CHARACTERISTICS:
LENGTH: 1542 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-757-653-158

Query Match 71.6%; Score 1064.6; DB 2; Length 1542;
Best Local Similarity 85.7%; Pred. No. 0;
Matches 1266; Conservative 0; Mismatches 199; Indels 12; Gaps 7;

QY 3 TAGCTCAGATTGAACCGCTGGCGGCGAGGCTTAAACATCATCAAGTCGAGCGGTAAACAGG-- 60
Db 20 TGGCTCAGATTGAACCGCTGGCGGCGAGGCTTAAACATCATCAAGTCGAGCGGTAAACAGGAA 78

QY 61 GGAGCTTGTCTCC--TGCTGACAGCGGCGGCGAGGTGAGTAAACCGCTAGGAAATCTGCCTA 118
Db 79 GAAGCTTGTCTCTTTTCTGACAGATGGCGGGAAGGTTGAGTATGCTTGGGAAACTGCCTG 138

QY 119 GTAGAGGGGGACAAATGTGGAAACGCAATGCTAATACCGGATACGCCCTGAGGGGGAAG 178
Db 139 ATGAGGGGGGATAAATACTCTGGAAACGGTAGCTAATAACCGCAATAACGTCGCAAGCCAAAG 198

QY 179 GAGGGGACTCTTCGGAGCCCTTCGCTATTAGATGAGCCTGCGTGAGATTAGCTAGTTGGT 238
Db 199 AGGGGGA--CCTTCGGGGCTCTTGCCATCGGATGTCGCAGATGGATTAGCTAGTAGGT 256

QY 239 AGGGTAAAGCCCTACCAAGCGCAGCACTCTTAAGTCTGAGAGGATGACCAAGTCACAC 298
Db 257 GGGGTAAACGGCTCACCTTAGCGACGATCCCTAGCTGCTGAGAGGATGACCAAGCCACAC 316

QY 299 TGAGCTAGACACCGCCCGAGCTCTCTACGGGAGGAGCAGTGGGGAATATGGACAATG 358
Db 317 TGGAACTGACACACGGTCAGACTCTCTACGGGAGGAGCAGTGGGGAATATATGCAATG 376

QY 359 GCGCAGAGCTGATCAGCCCATCCGCGTGTGTGAAGAAGGCCCTTAGGGTTGTAAAGCAC 418
Db 377 GCGCAGAGCTGATGAGCCATCGCGGTGTATGAAGAAGGCCCTTCGGTTGTAAAGTAC 436

QY 419 TTTTCAGGGGTGAGGAAGGGGTGATAGGTTAATACGTTATCATCTTGAGCTTAGCCCCAGAA 478
Db 437 TTTTCAGGGGAGGAAGGGAGTAAAGTTAATACCTTTGCTCATTTAGCTTACCGCGAGAA 496

QY 479 GAAGCACCGGCTAACTCTGTGCCAGCAGCCGCGTAATACAGAGGGTGCAGAGCGTTAATC 538
Db 497 GAAGCACCGGCTAACTCTCGGTGCCAGCAGCCGCGTAATACGAGGGTGCAGAGCGTTAATC 556

QY 539 GGAATTACTGGGGTAAAGCGCGGTAGGTGGTTTGTTAAGTCGGATGTGAATCCCAAG 598
Db 557 GGAATTACTGGGGTAAAGCGCACGCGAGGCGGTTTGTTAAGTCAGATGTGAATCCCGCG 616

QY 599 GCTCAACCTTGGAAATGCAACCGATAGCTGCTAGCTAGGATATGCTAGAGGGGTCTGCAA 658
Db 617 GCTCAACCTTGGAACTGCATCTGATCTGGCAAGCTTGAGTCTGCTAGAGGGGTGAGAA 676

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658	GTGTAGCGGTGAATGCTGTAGAGATCTGAAGGAATACCGGTGGCGAAGCGGCCCTGG	717
725	ACTAATCTGACACTGAGGTGCGAAACGGTGGGAGCAAAACAGATTAGATACCCTGGTA	784
718	ACAAAGACTGACCTCAGATCGGAAACGCTGGGAGCAAAACAGATTAGATACCCTGGTA	777
785	GTCCACGCGTAAACGATGCTACTAGCCG--TTGGGTTGTAATGACTTGTAGTCGCGAGC	842
778	GTCCACGCTGTAAACGATGTCTACTTGGAGGTTGTGACCTTARAGTCGTGGCTTTCGGAGC	837
843	TACGCAATAGTAGACCGCCTCGGGAGTAGCGCGCAAGGTTAAAACTCAAATGAATTG	902
838	TAAACGGTTTATGTAGACCGCCTCGGAGTACGTCGCAAGATTAAAACTCAAATGAATTG	897
903	ACGGGGGCGCCACAAGCGGTGGAGCATGTGTTTAAATTCGAAGCAACGCAAGAACCTT	962
898	ACGGGGGCGCCACAAGCGGTGGAGCATGTGTTTAAATTCGATCGAACCGCAAGAACCTT	957
963	ACCTACTCTTGACATCCACAGAACATTTGAGAGATCAGATCGTGCTTTCGGGAACTGTGA	1022
958	ACCTACTCTTGACATCCAGAGAACGCCAAGAGATTTTGGTGTGCTTTCGGGAACTGTGA	1017
1023	GACAGTCTGCATGGCTGTCTGACGCTCGTGTCTGTGAAATTTTGGGTTAAGTCCCGTAA	1082
1018	GACAGTCTGCATGGCTGTCTGACGCTCGTGTCTGTGAAATTTTGGTGTGCTTTCGGGAACTGTGA	1077
1083	CGAGCGCAACCTTGTCTTTATTTGCCAGACAGTAATCGTGGGAATTTTGAAGACACTGC	1142
1078	CGAGCGCAACCTTATCTCTTTTGTCCAGCGAGTAATGTCGGGAACTCCAGGGAGACTGC	1137
1143	CGGTGACAAACCGGAGGAGGTGGGGACGAGCTCAAGTCATCATGGCCCTTACGAGTAGG	1202
1138	CGGTGATAAACCGGAGGAGGTGGGGACGAGTCGAAGTCATCATGGCCCTTACGAGTAGG	1197
1203	GCTTACACAGCTGCTCAATTGGCGGTATACAGAGGCGTGCAAAGCTAGCGATGTGAGCGAAT	1262
1198	GCTTACACAGCTGCTCAATTGGCGGTATACAGAGGCGAGCGAGCGCGAGGTGGAGCGAAT	1257
1263	CCCAACAAGTACGTGTAGTCGGATTTGGAGTCTGCAACTGACTCCATGAATCGGAAT	1322
1258	CCCAAGAAATATGTCTGATGTCGGATTCGGAGTCTGCAACTGCACTCCGTGGAATCGGAAT	1317
1323	CGCTAGTAATCGTGAATCAGATGTCAAGTGTCAAGTGTACGTTCCGGGCTTTGTACACACCG	1382
1318	CGCTAGTAATCGTGAATCAGATGTCAAGTGTCAAGTGTACGTTCCGGGCTTTGTACACACCG	1377
1383	CCCGTCACACCATGGGAGTTGATGTCTCAGAAAGTAGCTAGCTTAACCCCTTCGGGATGG	1442
1378	CCCGTCACACCATGGGAGTTGATGTCTCAGAAAGTAGCTAGCTTAACCCCTTCGGGAGGG	1435
1443	CGGTTACCACGAGTGGTCAATGACTGGGGT	1473
1436	CGTTTATACACGAGTGGTTCATGACTGGGGT	1466

[illegible]

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QY 659 TTTCCTGTGTAGCGGTGAATCGGTAGATAGAAAGAACATCAGTGGCGAAGCGACA 718
D 677 TTCCAGGTGTAGCGGTGAATCGGTAGATCTGGAGATACCGGTGGCGAAGCGGCC 736
QY 719 CCTGGACATAACTACACCTGAGTGGCGAAGCGGTGGGAGCAAAACAGGATTAGATACC 778
D 737 CCTGGACGAAGACTACGCTCAGTGGCGAAGCGGTGGGAGCAAAACAGGATTAGATACC 796
QY 779 CTGGTAGTCCACCGCGTAAACGATGCTACTAGCCG--TTGGGTTTGAATGACTTAGTGG 836
D 797 CTGGTAGTCCACCGCGTAAACGATGCTACTAGCCGTTGGAGGTTGTGCCCTTGAGCGGTGCTTC 856
QY 837 CGAGCTAACGCAATAAGTAGACCGCTGGGAGTAGCGCGCGCAAGCTTAAACCTCAAT 896
D 857 CGAGCTAACGCGTTAAGTCGACCGCTGGGAGTAGCGCGCGCAAGCTTAAACCTCAAT 916
QY 897 GAATTGACGGGGCGCGCAACAGCGTGGAGCATGTGTTTAAATTCGAAGCAACGCAAG 956
D 917 GAATTGACGGGGCGCGCAACAGCGTGGAGCATGTGTTTAAATTCGATGCAACGCAAG 976
QY 957 AACCTTACCTACTCTTGACATCCACAGAACATTTGAGAGATCAGATGCTGCTTCGGGA 1016
D 977 AACCTTACCTGCTTGACATCCACGGAAGTTTTCAGAGATCAGATGCTGCTTCGGGA 1036
QY 1017 CTGTGAGCAGGTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1076
D 1037 CTGTGAGCAGGTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1096
QY 1077 CGTTAACGAGCGCAACCTTGTCTTATTTGCGACGACGTAATGTTGGGAACTTTAAGGA 1136
D 1097 CGCAACGAGCGCAACCTTATCTTCTTGTGTCAGC-GGTGCGCGCGCACTCAAGGA 1155
QY 1137 GACTGCGCGTACAAACCGGAGGAGTGGGACGACGCTCAAGTCATCATGCGCTTACG 1196
D 1156 GACTGCGAGTGATTAACCTGGAGGAGTGGGATGACGTCAAGTCATCATGCGCTTACG 1215
QY 1197 AGTAGGGCTACACAGTGTCTCAATGGCGTATACAGAGGGCTGCAAGTACGATAGTGA 1256
D 1216 ACCAGGGCTACACAGTGTCTCAATGGCGTATACAGAGGAGCGCTCGCGAGAGCA 1275
QY 1257 GCGAATCCCAAGTAGTGTGATGTCGGATGTCGAGTGTGCAACTCGACTTCCATGAGT 1316
D 1276 GCGAATCCCAAGTAGTGTGATGTCGGATGTCGAGTGTGCAACTCGACTTCCATGAGT 1335
QY 1317 CGGAATCGTAGTAACTCGTGAATCAGAAATGTCAGGTCGATGTCGCGGCGCTTGTAC 1376
D 1336 CGGAATCGTAGTAACTCGTGAATCAGAAATGTCAGGTCGATGTCGCGGCGCTTGTAC 1395
QY 1377 ACACCGCGCTACACATGGAGTGTGATGCTCCAGAGTAGTGTGATGCTTAACTCCG 1436
D 1396 ACACCGCGCTACACATGGAGTGTGATGCTCCAGAGTAGTGTGATGCTTAACTCCG 1453
QY 1437 GGATGCGGTACACAGGAGTGTGATGCTTAACTCCAGAGTAGTGTGATGCTTAACTCCG 1473
D 1454 GGAGGCGCTTACCACTTTGTGATTCATGACTGGGGT 1490

RESULT 12
US-09-465-355-2
; Sequence 2, Application US/09465355
; GENERAL INFORMATION:
; PATENT NO. 6316194
; APPLICANT: Karn, Jonathan
; APPLICANT: Knowles, David
; APPLICANT: Murchie, Alastair
; APPLICANT: Lentzen, Georg
; TITLE OF INVENTION: Methods and Kits for Discovery of RNA-Binding Antimicrobials
; FILE REFERENCE: 22620/1150 (Formerly 3950/85276)
; CURRENT APPLICATION NUMBER: US/09465,355
; CURRENT FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: US 09/325,601
; PRIOR FILING DATE: 1999-06-03
```

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; PRIOR APPLICATION NUMBER: GB 9812196.5
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: GB 9904790.4
; PRIOR FILING DATE: 1999-03-02
; PRIOR APPLICATION NUMBER: US 60/122,439
; PRIOR FILING DATE: 1999-03-02
; PRIOR APPLICATION NUMBER: US 60/088,241
; PRIOR FILING DATE: 1998-06-05
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 1542
; TYPE: RNA
; ORGANISM: Escherichia coli
; US-09-465-355-2

Query Match 71.6%; Score 1064.6; DB 4; Length 1542;
Best Local Similarity 68.8%; Pred. No. 0;
Matches 1016; Conservative 250; Mismatches 199; Indels 12; Gaps 7;

QY 3 TAGCTCAGATTGAACGCTGGCGGAGGCTTAAACACATGCAAGTCGAGCGGTAAACAGG-- 60
D 20 UGGCUCAGAUUGAACGUGCGGCGAGGCCU-AACACAUCAUGACUCGACGCGUAACAGGAA 78
QY 61 GGAGCTTCTCTCC--TGCTGACGAGCGCGGAGCGGTGAGTAAACGCGTAGGAATCTGCCTA 118
D 79 GAAGCUCUCUUCUUGUCGAGUGCGGAGCGGUGAGUAUUGUCUGGAAACUGCCUG 138
QY 119 GTAGAGGGGGACACATGTGGAACGCATGCTTAAACCGCATACGCCCTGAGGGGGAAG 178
D 139 AUGAGGGGGGAUAUAUAGGAAACGUAUUAUACCGCAUAACGUGCGAAGCAACAAAG 198
QY 179 GAGGGGACTCTTCGGAGGCTTCCGCTATTAGATGAGCTGCTGAGATTAGCTAGTCTGT 238
D 199 AGGGGGA--CCUUCGGGCUUCUGCCAUUGUGGCCAUGGUAUUGCUAGUAGUAGU 256
QY 239 AGGGTAAAGGCTTACAGGCGAGCATCTCTAACTGCTCTGAGAGGATGACAGTCAAC 298
D 257 GGGGUAACGGGCUACACUAGGCGAGCAUCCUAGCUGUCUGAGAGGAGUACCCAGCCAC 316
QY 299 TGGGACTTGAGACACGGCCGACCTCTACGGGAGCGAGCAGTGGGGATATTGGACAATG 358
D 317 UGGAACUGAGACACGGGUCCAGACUCCUACCGGAGGCGAGCAGUGGGGAAUUAUGCA 376
QY 359 GGGCAAGCCTGATCCAGCCATGCGCGTGTGTGAAGAAGGCCCTTAGGTTGTAAAGCA 418
D 377 GGGCAAGCCTGATCCAGCCATGCGCGTGTGTGAAGAAGGCCCTTAGGTTGTAAAGCA 436
QY 419 TTTCAGGGGTGAGAGGGGTGATAGTTAATAGTTATCATCTTTCAGTTAGCCCCAGAA 478
D 437 UUUUACGGGGGAGGAGGAGUAAUUAUACCUUUGCUUUAUAGUAGUAGUAGUAGUAGU 496
QY 479 GAAGACCGGCTAACTCTGTGCCAGCAGCGCGGTATATACAGAGGGTGCAGAGTTAATC 538
D 497 GAAGACCGGCTAACTCTGTGCCAGCAGCGCGGTATATACAGAGGGTGCAGAGTTAATC 556
QY 539 GGAATTACTGGCGTAAAGCGCGCTAGTGTGTTTGTAGTCGAGTGTGAAATCCCAGG 598
D 557 GGAUUAUACUGGGGUAAGAGCGCAGCGGCGUUAUAGUAGUAGUAGUAGUAGUAGUAGU 616
QY 599 GCTCAACCTTGGATGGCACCCGATCTGCTAGCTAGATATAGGAGGAGCAATCAGTGG 658
D 617 GCUCAACCGGGGAACUGCAUCUGAUAUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGU 676
QY 659 TTTCCTGTGTAGCGGTGAATCGGTAGATATAGGAGGAGCAATCAGTGGCGAAGCGACA 718
D 677 UUCGAGGUGAGCGGUAUUAUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGU 736
QY 719 CCTGGACTTAATCTACACTGAGGTGCGAAGCGGTGGGAGCAAAACAGGATTAGTACC 778
D 737 CCUGGAGCAAGACUGACGCTCAGGUGCGAAGCGGAGGAGCAAAACAGGUAUAGUAGU 796
QY 779 CTGTGAGTCCACCGCGTAAACGATGCTTACTAGCCG--TTGGGTTTGAATGACTTAGTGG 836
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QY	719	CCCTGGACTAATACTGACACTGAGGTGCGAAACGTTGGGAGCAACACAGATTAGATACC	778
Db	737	CCCTGGACGAAGACTGACGCTCAGGTGCGAAGCGTTGGGAGCAACACAGATTAGATACC	796
QY	779	CTGTGATGTCACGCCGFTAAACGATGCTTACTAGCG--TTGGGTTGTAATGACTTAGTGG	836
Db	797	CTGTGATGTCACGCCGFTAAACGATGCTCGACTTGGAGGTTGTGCCCTTGAGGGCGTGGCTTC	856
QY	837	CGCAGCTAACCGCAATAAGTATGACCGCTCTGGGAGTAGCGCGCAAGGTTAAAACTCAAAT	896
Db	857	CGGAGCTTAACCGCGTTAAGTCGACCGCCTGGGAGTAGCGCGCAAGGTTAAAACTCAAAT	916
QY	897	GAATTGACGGGGCCGCCACAAACGCGTGGAGCATGTGGTTTAATTCGAAGCAACGCGAAG	956
Db	917	GAATTGACGGGGCCGCCACAAACGCGTGGAGCATGTGGTTTAATTCGATGCAACGCGAAG	976
QY	957	AACCTTTACCTTCTTGACATTCACAGAAACATTTGAGAGATCAGATGGTGCCCTTCGGAA	1016
Db	977	AACCTTTACCTTCTTGACATTCACAGAAAGTTTTCAGAGATGAGAAATGTGCCCTTCGGAA	1036
QY	1017	CTGTGACACAGGTGCTGCATGGCTGTCGTGAGCTCGTGTGCGAAATGTTGGGTTAAATGC	1076
Db	1037	CCGTGACACAGGTGCTGCATGGCTGTCGTGAGCTCGTGTGCGAAATGTTGGGTTAAATGC	1096
QY	1077	CCGTAAACGAGCGCAACCTTGTCTCTTAATTTGCCAGCAGTAATGTTGGGAACTTTAAGGA	1136
Db	1097	CCGCAACGAGCGCAACCTTATCTTCTTGTGCCAGC--GGTCCGCCGGGAACTCAAAGGA	1156
QY	1137	GACTGCCGGTCAACAAACGGAGGAAGGTGGGACGACGTCAAGTCATCATGGGCCCTTACG	1196
Db	1156	GACTGCCAGTGATATAACTGGAGGAAGGTGGGATGACGTCAAGTCATCATGGGCCCTTACG	1215
QY	1197	AGTAGGGCTACACACGTGCTACAATGGCGTATACAGAGGGCTGCAAGCTAGCGATAGTGA	1256
Db	1216	ACGAGGGCTACACACGTGCTACAATGGCGTATACAGAGAGAGGACCTCGCGAGACAA	1275
QY	1257	GCGAATCCCAAAAGTAGCTCGTAGTCGGATGTCGAACTCGCACTCGACTCCATGAAGT	1316
Db	1276	GCGACCTCATAAAGTGGCTCGTAGTCGGATGTCGAACTCGCACTCGACTCCATGAAGT	1335
QY	1317	CGGAATCGCTAGTAATTCGTGAATCAGATGTACCGTGAATACGTTCCCGGGCCCTGTAC	1376
Db	1336	CGGAATCGCTAGTAATTCGTGAATCAGATGTACCGTGAATACGTTCCCGGGCCCTGTAC	1395
QY	1377	ACACGCCCGTCACACCATGGAGTTGATGTCGCAGAAAGTAGCTAGCTTAACCCCTTCGG	1436
Db	1396	ACACGCCCGTCACACCATGGAGTTGATGTCGCAGAAAGTAGCTAGCTTAACCCCTTCGG	1453
QY	1437	GGATGGCGGTTACCAACGAGGTGGTCAATCACTGGGGT	1473
Db	1454	GGAGGGCGGTTACCACTTTGTGATTCATGACTGGGGT	1490

RESULT 15

US-08-114-695A-1  
Sequence 1, Application US/08114695A  
Patent No. 5508193  
GENERAL INFORMATION:  
APPLICANT: Mandelbaum, Raphael T.  
APPLICANT: Wackett, Lawrence P.  
TITLE OF INVENTION: DEGRADATION OF S-TRIAZINES IN SOIL AND  
TITLE OF INVENTION: WATER  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESS: SCHWEGMAN, LUNDBERG & WOESSNER, P.A.  
STREET: 3500 IDS CENTER  
CITY: MINNEAPOLIS  
STATE: MN  
COUNTRY: USA  
ZIP: 55402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible

```

, OPERATING SYSTEM: PC-DOS/MS-DOS
, SOFTWARE: PatentIn Release #1.0, Version #1.25
,
, CURRENT APPLICATION DATA:
, APPLICATION NUMBER: US/08/114,695A
, FILING DATE: 31-AUG-1993
, CLASSIFICATION: 435
, ATTORNEY/AGENT INFORMATION:
, NAME: MUETING, ANN M.
, REGISTRATION NUMBER: 33,977
, REFERENCE/DOCKET NUMBER: 600.268US1
, TELECOMMUNICATION INFORMATION:
, TELEPHONE: 612-339-0331
, TELEFAX: 612-339-3061
, INFORMATION FOR SEQ ID NO: 1:
, SEQUENCE CHARACTERISTICS:
, LENGTH: 1542 base pairs
, TYPE: nucleic acid
, STRANDEDNESS: single
, TOPOLOGY: linear
, MOLECULE TYPE: rRNA
, ORIGINAL SOURCE:
, ORGANISM: Escherichia coli
, US-08-114-695A-1

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Query Match 71.3%: Score 1058.8; DB 1; Length 1542;

Query Match	71.3%	Score 1058.8	DB 1	Length 1542	
Best Local Similarity	68.3%	Pred. No. 0			
Matches 1009	Conservative 248	Mismatches	207	Indels 14	Gaps 6
Qy	3	TAGCTCAGATTGAACGCTGCGCGGAGGCTTTAAACACATGCAAGTCGAGCGGTAAACAGGGG	62		
Db	20	UGGCUCAGAUUGAACGUCUGGCGGCGAGCCU-AACACAGCAGCAAGCUGAACGGUAAACGGA	78		
Qy	63	AGCTTGTCTCC-----TGCTGACGAGCGGCGGACGCGGTGAGTAAACGCGTGAAGAACTCGCCT	117		
Db	79	AGAAGCUUGCUUUCUCGACGAGUGCGGCGAGGUGAGUAAUGUCUGGGAACACUGCCU	138		
Qy	118	AGTAGAGGGGGAACAATGTGGAAACGATCTTAATACCGCATACGCCCTCAGGGGGAAA	177		
Db	139	GAUGGAGGGGAUAAACUACUGGAAACGGUACUAAUACCGCAUAAACGUCGACAGACCAAG	198		
Qy	178	GGAGGGGACTCTTCGGAGGCTTCGCTATTAGATGAGCCTCGCTGAGATTAGCTAGTTGG	237		
Db	199	AGGGGG---ACUUCUGGGCCUUCUGCCAUUCGGAUGUGCCAGAUUGGGAUAGCUAGUAGG	255		
Qy	238	TAGGTTAAAGGCTTACCAAGCGGACGATCTCTAACTGGCTTGAGAGGATGACCGATCA	297		
Db	256	UGGGGUAAACGCGUCUACCUAGCGGAGUCCUAGCUGGUCUGAGAGGAUGACCAGCCACA	315		
Qy	298	CTGGGACTGAGACACGGGCCACAGCTCTTAACGGGAGGACGAGTGGGGAATATTGGACAAT	357		
Db	316	CUGGAAACUGAGACACGGUCCACAGCUCUACCGGAGGCGACAGUGGGGHAUUAUUGCACAAU	375		
Qy	358	GGGCGCAGCCTGTATCCAGCCATGCGCGTGTGTGAAGAGGCCCTTAGGGTTGTTAAAGCA	417		
Db	376	GGGCGCAAGCCUGAUGCAGGCAUGCCGCGUGUAUGAAGAAAGCCUUCUGGGUUGUAAAGUA	435		
Qy	418	CTTTTCAGGGGTGAGGAAGGGTGATAGGTTAAATACGTTATCATCTTGACGTTAGCCCCAGA	477		
Db	436	CUUUCAGCGGGGAGGAAGGAGUAAAGUUAUACCUUUGCUAUUGACUUUACCCGCGAGA	495		
Qy	478	AGAAGCACCGGCTAATCTGTGCCAGACGCCCGGTAAATACGAGGGTGCAAGCCTTAAT	537		
Db	496	AGAAGCACCGGCUAACUCCUGCCAGCAGCCGCGUAAUACGGAGGGGTCAGACCGGUUAAU	555		
Qy	538	CGGAATTACTGGCGTAAAGCGCGGTAGGTGTTGTTTAACTCCGATGTGAAATCCCGAG	597		
Db	556	CGGAATUACUGGGCGUAAAGCGCAACGAGCCGCGUUAUACGGAGGGGTCAGACCGGUUAAU	615		
Qy	598	GGCTCAACTCTTGGATGGCACCCGATCTGCGGTAGCTAGAGTATGTTAGAGGGGTGTGGA	657		
Db	616	GGCUCAAACUGGGAACGUAUCUGAUAUCUGGCAAGCUCUAGUCUCUGAAGGGGGGUA	675		
Qy	658	ATTTCTGTGTAGCGGTGAAATCGGTAGATATAGNAGGAAACATCAGTCGGCGNAGGCGAC	717		



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Db 361 CATGCCGCGTGTG



; APPLICANT: CANON INC.  
; TITLE OF INVENTION: Preparation of Poly-hydroxyalkanoic Acid  
; FILE REFERENCE: 4351008  
; CURRENT APPLICATION NUMBER: US/09/745,476  
; CURRENT FILING DATE: 2000-12-26  
; NUMBER OF SEQ ID NOS: 1  
; SOFTWARE: Microsoft Word  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii P161 ; PERM P-17445  
US-09-745-476-1

Query Match 92.1%; Score 985.2; DB 4; Length 1501;  
Best Local Similarity 95.9%; Pred. No. 0;  
Matches 1011; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 15 TGAACGCTGGCGGCGAGCTTAACATGCAATGCGAGCGGTAGAGAGAGCTTGTCTTC 74  
Db 1 TGAACGCTGGCGGCGAGGCTTAACATGCAATGCGAGCGGTAGAGAGAGCTTGTCTTC 60  
QY 75 TTGAGAGCGCGCGAGCGGTGAGTAATGCTAGGATCTGCTGTAGTGGGGGTAACGT 134  
Db 61 AATTGAGCGCGGAGCGGTGAGTAATGCTAGGATCTGCTGTAGTGGGGGTAACGT 120  
QY 135 TCGGAAACGGAGCGCTTAATACCGCATACGTCCTACCGGAGAAACGAGGGGACCTTCGGGCC 194  
Db 121 CTCGAAAGGAGCGCTTAATACCGCATACGTCCTACCGGAGAAACGAGGGGACCTTCGGGCC 180  
QY 195 TTGCGCTATCAGATCAGAGCTAGTGGATTTAGCTAGTGGTGGTGAATGCTACCAAG 254  
Db 181 TTGCGCTATCAGATCAGAGCTAGTGGATTTAGCTAGTGGTGGTGAATGCTACCAAG 240  
QY 255 GCGAGCATCGGTAACTGCTGAGAGGATGATCAGTCACTGGAACCTGAGACAGGTCC 314  
Db 241 GCGAGCATCGGTAACTGCTGAGAGGATGATCAGTCACTGGAACCTGAGACAGGTCC 300  
QY 315 AGACTCTACGGAGCGGAGCTGAGTGGGGAATTTGACAATGCGGCGAAAGCTGATCCAGC 374  
Db 301 AGACTCTACGGAGCGGAGCTGAGTGGGGAATTTGACAATGCGGCGAAAGCTGATCCAGC 360  
QY 375 CATGCGCGTGTGAAGAGCTCTTCGGATTTAAAGCACTTTAAAGTGGGAGGAGG 434  
Db 361 CATGCGCGTGTGAAGAGCTCTTCGGATTTAAAGCACTTTAAAGTGGGAGGAGG 420  
QY 435 TTGTAGATTAATACTCTGCAATTTGAGTTACCGACAGATAGCACCGGCTAACTCTG 494  
Db 421 CAITTAACCTAATAGTTAGTTTGGCTTACCGACAGATAGCACCGGCTAACTCTG 480  
QY 495 TGCCAGAGCGCGGTAAATACAGAGGCTGCAAGCGTTAATCGGAATTAATCGGCGTAAAG 554  
Db 481 TGCCAGAGCGCGGTAAATACAGAGGCTGCAAGCGTTAATCGGAATTAATCGGCGTAAAG 540  
QY 555 CGCGCTAGTGGTGTGTAAGTTGGAATGCAATCCCGGGCTCAACCTGGGAACTGCA 614  
Db 541 CGCGCTAGTGGTGTGTAAGTTGGAATGCAATCCCGGGCTCAACCTGGGAACTGCA 600  
QY 615 TTCAAAACTGACTGACTAGATAGTGTAGAGGTTGGTGAATTTCTGTGTAGCGGTGAA 674  
Db 601 TTCAAAACTGACTGACTAGATAGTGTAGAGGTTGGTGAATTTCTGTGTAGCGGTGAA 660  
QY 675 ATGCGTAGATATAGGAAGGAACACCACTGGCGAAGGCGACCACTGAGCTAAATCTGACA 734  
Db 661 ATGCGTAGATATAGGAAGGAACACCACTGGCGAAGGCGACCACTGAGCTAAATCTGACA 720  
QY 735 CTGAGGTGCGAAGCGTGGGAGCAAAACAGATTTAGATACCTGGTGTAGTCCACCGGTAA 794  
Db 721 CTGAGGTGCGAAGCGTGGGAGCAAAACAGATTTAGATACCTGGTGTAGTCCACCGGTAA 780  
QY 795 ACAGTGTCAACTAGCGGTGCGAGCGCTTGTAGCTTTTGTAGTGGCGAGCTAACGATTAAGT 854  
Db 781 ACAGTGTCAACTAGCGGTGCGAGCGCTTGTAGCTTTTGTAGTGGCGAGCTAACGATTAAGT 840

QY 855 TGACCGCTGGGAGCTACGCGCGCAGGTTAAACTCAATGAATTAAGTGAAGGGGCCCGCA 914  
Db 841 TGACCGCTGGGAGCTACGCGCGCAGGTTAAACTCAATGAATTAAGTGAAGGGGCCCGCA 900  
QY 915 CAAGCGGTGGAGCATGTGTTTAAATTCGAAGCAACCGCAAGAACCTTTACAGCCCTTGAC 974  
Db 901 CAAGCGGTGGAGCATGTGTTTAAATTCGAAGCAACCGCAAGAACCTTTACAGCCCTTGAC 960  
QY 975 ATCCAAATGAACCTTTCTAGAGATAGATTTGCTTGGGAAACATTGAGACAGTGTCTGCA 1034  
Db 961 ATCCAAATGAACCTTTCTAGAGATAGATTTGCTTGGGAAACATTGAGACAGTGTCTGCA 1020  
QY 1035 TGGCTGTGCTCAGCTCGCTTGTGTAATGTAAGG 1068  
Db 1021 TGGCTGTGCTCAGCTCGCTGCTGAGATGTTGGG 1054

## RESULT 4

US-09-748-205-1  
; Sequence 1, Application US/09748205  
; Patent No. 6586562  
; GENERAL INFORMATION:  
; APPLICANT: Canon Inc.  
; TITLE OF INVENTION: Polyhydroxyalkanoate its manufacturing method, and microorganism  
; FILE REFERENCE: 4351009  
; CURRENT APPLICATION NUMBER: US/09/748,205  
; CURRENT FILING DATE: 2000-12-27  
; NUMBER OF SEQ ID NOS: 1  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii 161 strain.  
US-09-748-205-1

Query Match 92.1%; Score 985.2; DB 4; Length 1501;  
Best Local Similarity 95.9%; Pred. No. 0;  
Matches 1011; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 15 TGAACGCTGGCGGCGAGCTTAACATGCAATGCGAGCGGTAGAGAGAGCTTGTCTTC 74  
Db 1 TGAACGCTGGCGGCGAGGCTTAACATGCAATGCGAGCGGTAGAGAGAGCTTGTCTTC 60  
QY 75 TTGAGAGCGCGGAGCGGTGAGTAATGCTAGGATCTGCTGTAGTGGGGGTAACGT 134  
Db 61 AATTGAGCGCGGAGCGGTGAGTAATGCTAGGATCTGCTGTAGTGGGGGTAACGT 120  
QY 135 TCGGAAACGGAGCGCTTAATACCGCATACGTCCTACCGGAGAAACGAGGGGACCTTCGGGCC 194  
Db 121 CTCGAAAGGAGCGCTTAATACCGCATACGTCCTACCGGAGAAACGAGGGGACCTTCGGGCC 180  
QY 195 TTGCGCTATCAGATGAGCTAGTGGATTTAGCTAGTGGTGGTGAATTAATCGGCTCAACAG 254  
Db 181 TTGCGCTATCAGATGAGCTAGTGGATTTAGCTAGTGGTGGTGAATTAATCGGCTCAACAG 240  
QY 255 GCGAGCATCGGTAACTGCTGAGAGGATGATCAGTCACTGGAACCTGAGACAGGTCC 314  
Db 241 GCGAGCATCGGTAACTGCTGAGAGGATGATCAGTCACTGGAACCTGAGACAGGTCC 300  
QY 315 AGACTCTACCGAGCGGAGCTAGTGGGGAATTTGGAATTTGGGCGAAGCGCTGATCCAGC 374  
Db 301 AGACTCTACCGAGCGGAGCTAGTGGGGAATTTGGAATTTGGGCGAAGCGCTGATCCAGC 360  
QY 375 CATGCGCGTGTGAAGAGGCTCTTCGGATTTAAAGCACTTTAAAGTGGGAGGAGG 434  
Db 361 CATGCGCGTGTGAAGAGGCTCTTCGGATTTAAAGCACTTTAAAGTGGGAGGAGG 420  
QY 435 TTGTAGATTAATACTCTGCAATTTTGAAGTACCGATAGCAAGCAATTAAGTGTGCTGCTG 494  
Db 421 CATTAACCTAATAGCTTGTGTTTGAAGTACCGATAGCAAGCAATTAAGTGTGCTGCTG 480  
QY 495 TGCCAGAGCGCGGTAAATACAGAGGCTGCAAGCGTTAATCGGAATTAATCGGCGTAAAG 554

Db 481 TGCCAGAGCCGCGGTAAATACAGAGGCTGCAAGCGTTAATCGAATTACTGGCGGTAAAG 540  
Qy 555 CGCGGTAGGTGGTTTGTAAAGTTGGATGTGAATCCCGGGCTCAACTGGGAATGCA 614  
Db 541 CGCGGTAGGTGGTTTGTAAAGTTGGATGTGAATCCCGGGCTCAACTGGGAATGCA 600  
Qy 615 TTCAAACTGACTGACTAGATGATGATAGAGGCTGTGAATTTCTCTGTAGCGGTGAA 674  
Db 601 TTCAAACTGACTGACTAGATGATGATAGAGGCTGTGAATTTCTCTGTAGCGGTGAA 660  
Qy 675 ATGCGTAGATATAGGAAGCAACACAGTGGCGAAGCGCACCTGGGACTAATATGACA 734  
Db 661 ATGCGTAGATATAGGAAGCAACACAGTGGCGAAGCGCACCTGGGACTAATATGACA 720  
Qy 735 CTGAGGTGCGAAGCGTGGGAGCAACAGGATTAGATACCTGTGTAGTCCACGCGTAA 794  
Db 721 CTGAGGTGCGAAGCGTGGGAGCAACAGGATTAGATACCTGTGTAGTCCACGCGTAA 780  
Qy 795 ACGATGTCAACTAGCGTTGGAGGCTTGGAGCTTTTGTGGCGCAGCTAAACGATTAGT 854  
Db 781 ACGATGTCAACTAGCGTTGGAGGCTTGGAGCTTTTGTGGCGCAGCTAAACGATTAGT 840  
Qy 855 TGACCGCTGGGAGTACGCGCGCAAGGTTAAACTCAAAATGAATGACGCGGCGCGCA 914  
Db 841 TGACCGCTGGGAGTACGCGCGCAAGGTTAAACTCAAAATGAATGACGCGGCGCGCA 900  
Qy 915 CAAGCGTGGAGCATGTGTTTAAATTCGAAGCAACGCGAAGCACTTACCGGCTTGAC 974  
Db 901 CAAGCGTGGAGCATGTGTTTAAATTCGAAGCAACGCGAAGCACTTACCGGCTTGAC 960  
Qy 975 ATCCCAATGAACCTTCTAGAGATAGATTGGTGCCTTCGGGAACATTCGAGACAGTGTGCA 1034  
Db 961 ATCCCAATGAACCTTCTAGAGATAGATTGGTGCCTTCGGGAACATTCGAGACAGTGTGCA 1020  
Qy 1035 TGGCTGTCTGCTGAGTCTGCTGTGTGAATGTAAAG 1068  
Db 1021 TGGCTGTCTGAGTCTGCTGTGTGAATGTAAAG 1054

## RESULT 5

US-09-951-720-1  
; Sequence 1, Application US/09951720  
; Patent No. 6635782  
; GENERAL INFORMATION:  
; APPLICANT: Canon Kabushiki Kaisha  
; TITLE OF INVENTION: Polyhydroxyalkanoate and Manufacturing Method Thereof  
; FILE REFERENCE: 4477001  
; CURRENT APPLICATION NUMBER: US/09/951,720  
; CURRENT FILING DATE: 2000-09-14  
; PRIOR APPLICATION NUMBER: JP 279900/2000  
; JP 378827/2000  
; JP 165238/2001  
; JP 165509/2001  
; JP 275063/2001  
; PRIOR FILING DATE: 2000-09-14  
; 2000-12-13  
; 2001-05-31  
; 2001-05-31  
; 2001-09-11  
; NUMBER OF SEQ ID NOS: 1  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii P161 strain.  
US-09-951-720-1

Query Match 92.1%; Score 985.2; DB 4; Length 1501;  
Best Local Similarity 95.9%; Pred. No. 0;  
Matches 1011, Conservative 0; Mismatches 43; Indels 0; Gaps 0;  
Qy 15 TGAACGCTGGCGGAGGCTTAACATGCAAGTCCAGGCTAGAGAGAGCTGCTCTC 74  
Db 1 TGAACGCTGGCGGAGGCTTAACATGCAAGTCCAGGCTAGAGAGAGCTGCTCTC 60

## RESULT 6

US-10-411-319-1  
; Sequence 1, Application US/10411319

Qy 75 TTGAGAGCGCGGAGCGGCTGAGTAATGCTTAGGAATCTGCCCTGGTAGTGGGGGATAAAGT 134  
Db 61 AATTACAGCGCGGAGCGGCTGAGTAATGCTTAGGAATCTGCCCTGGTAGTGGGGGATAAAGT 120  
Qy 135 TCGGAACCGAGCGCTAATACCGCATACGCTCTACGGGAGAAAGCAGGGGACCTTCGGGCC 194  
Db 121 CTCGAAAGGAGCGCTAATACCGCATACGCTCTACGGGAGAAAGCAGGGGACCTTCGGGCC 180  
Qy 195 TTGCGCTATCAGATGAGCTAGGTCGGAATAGCTAGTTGGTGAAGTAATGGCTACCAAG 254  
Db 181 TTGCGCTATCAGATGAGCTAGGTCGGAATAGCTAGTTGGTGAAGTAATGGCTACCAAG 240  
Qy 255 GCGACGATCCGTAACTGCTCTGAGAGGATGATCAGTCACTCGGAACCTGAGACGCGTCC 314  
Db 241 GCGACGATCCGTAACTGCTCTGAGAGGATGATCAGTCACTCGGAACCTGAGACGCGTCC 300  
Qy 315 AGACTCTACGGGAGCGAGCTGGGGAATATTCGCAATGGCGAAAGCCTGATCCAGC 374  
Db 301 AGACTCTACGGGAGCGAGCTGGGGAATATTCGCAATGGCGAAAGCCTGATCCAGC 360  
Qy 375 CATGCCGCTGTGTGAAGAGGCTCTTCGGAATGTAAAGCATTAAAGTTGGGAGGAGG 434  
Db 361 CATGCCGCTGTGTGAAGAGGCTCTTCGGAATGTAAAGCATTAAAGTTGGGAGGAGG 420  
Qy 435 TTGTAGATTAACTACTCTGCAATTTTGAAGTTACCGACAGAAATAGCACCGGCTAACTCTG 494  
Db 421 CATTAACCTAACTACTCTGCAATTTTGAAGTTACCGACAGAAATAGCACCGGCTAACTCTG 480  
Qy 495 TCCGAGCAGCGCGGTAAATACAGAGGCTGCAAGCGTTAATCGGAATTAATCTGGCGGTAAAG 554  
Db 481 TCCGAGCAGCGCGGTAAATACAGAGGCTGCAAGCGTTAATCGGAATTAATCTGGCGGTAAAG 540  
Qy 555 CCGCGCTAGGTGTTTGTAAAGTTGGATGTGAATCCCGGGCTCAACTGGGAACTGCA 614  
Db 541 CCGCGCTAGGTGTTTGTAAAGTTGGATGTGAATCCCGGGCTCAACTGGGAACTGCA 600  
Qy 615 TTCAAACTGACTGACTAGATGATGATAGAGGCTGTGAATTTCTCTGTAGCGGTGAA 674  
Db 601 TTCAAACTGACTGACTAGATGATGATAGAGGCTGTGAATTTCTCTGTAGCGGTGAA 660  
Qy 675 ATGCGTAGATATAGGAAGCAACACAGTGGCGAAGCGCACCTGGAGCTTAATACTGACA 734  
Db 661 ATGCGTAGATATAGGAAGCAACACAGTGGCGAAGCGCACCTGGAGCTTAATACTGACA 720  
Qy 735 CTGAGGTGCGAAGCGTGGGAGCAACAGGATTAGATACCTGTGTAGTCCACGCGTAA 794  
Db 721 CTGAGGTGCGAAGCGTGGGAGCAACAGGATTAGATACCTGTGTAGTCCACGCGTAA 780  
Qy 795 ACGATGTCAACTAGCGTTGGAGGCTTGGAGCTTTGAGCTTTTGTGGCGCAGCTAACGATTAGT 854  
Db 781 ACGATGTCAACTAGCGTTGGAGGCTTGGAGCTTTTGTGGCGCAGCTAACGATTAGT 840  
Qy 855 TGAACCGCTGGGAGTACCGCGCGCAAGGTTAAACTCAAAATGAATGACGCGGCGCGCA 914  
Db 841 TGAACCGCTGGGAGTACCGCGCGCAAGGTTAAACTCAAAATGAATGACGCGGCGCGCA 900  
Qy 915 CAAGCGGTGAGCATGTGTTTAAATTCGAAGCAACGCGAAGAACCTTACGAGGCTTGAC 974  
Db 901 CAAGCGGTGAGCATGTGTTTAAATTCGAAGCAACGCGAAGAACCTTACGAGGCTTGAC 960  
Qy 975 ATCCCAATGAACCTTCTAGAGATAGATTGGTGCCTTCGGGAACATTCGAGACAGTGTGCA 1034  
Db 961 ATCCCAATGAACCTTCTAGAGATAGATTGGTGCCTTCGGGAACATTCGAGACAGTGTGCA 1020  
Qy 1035 TGGCTGTCTGCTGAGTCTGCTGTGTGAATGTAAAG 1068  
Db 1021 TGGCTGTCTGAGTCTGCTGTGTGAATGTAAAG 1054



Patent No. 6649381  
; GENERAL INFORMATION:  
; APPLICANT: Canon Inc.  
; TITLE OF INVENTION: Polyhydroxynate, Method For Production Thereof And Microorganisms  
; FILE REFERENCE: 03500, 015001.1  
; CURRENT APPLICATION NUMBER: US/10/411,319  
; PRIOR FILING DATE: 2003-04-11  
; PRIOR FILING DATE: 2000-12-27  
; NUMBER OF SEQ ID NOS: 1  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii 161 strain  
US-10-411-319-1

Query Match 92.1%; Score 985.2; DB 4; Length 1501;  
Best Local Similarity 95.9%; Pred. No. 0;  
Matches 1011; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 15 TGAAGCGCTGGCGGAGGCGCTTAACATGCAATGCAAGTCGAGCGGTAGAGAGAAGCTTGCTTC 74  
DB 1 TGAAGCGCTGGCGGAGGCGCTTAACATGCAATGCAAGTCGAGCGGTAGAGAGAAGCTTGCTTC 60  
QY 75 TTGAGAGCGGCGGAGGCGGTAGTAAATGCTTGAAGATCTGCTGGTGTAGTGGGGATAACGT 134  
DB 61 AATTGAGCGGCGGAGGCGGTAGTAAATGCTTGAAGATCTGCTGGTGTAGTGGGGATAACGT 120  
QY 135 TCGGAAGCGGCGCTTAATACCGCATAGTCTTACGGGAGAAAGCGGGACCTTCGGGCC 194  
DB 121 CTCGAAGCGGCGCTTAATACCGCATAGTCTTACGGGAGAAAGCGGGACCTTCGGGCC 180  
QY 195 TTGGGCTATCATAGTACGCTAGTGGGATAGTGGGATAGTACGCTTACGCTTACGCTACCAAG 254  
DB 181 TTGGGCTATCATAGTACGCTAGTGGGATAGTGGGATAGTACGCTTACGCTTACGCTACCAAG 240  
QY 255 GCGACGATCCGTAATCTGCTGAGAGGATGATGATGATGATGATGATGATGATGATGATGATG 314  
DB 241 GCGACGATCCGTAATCTGCTGAGAGGATGATGATGATGATGATGATGATGATGATGATGATG 300  
QY 315 AGATCTCTACGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 374  
DB 301 AGATCTCTACGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 360  
QY 375 CATGCCGCTGTGTGAAGAGGCTCTCGGATTTGAAGCACTTTAAGTTGGGAGGAGGAGG 434  
DB 361 CATGCCGCTGTGTGAAGAGGCTCTCGGATTTGAAGCACTTTAAGTTGGGAGGAGGAGG 420  
QY 435 TTGTAGATTAACTCTGCAATTTTGGATTTGACGTTACCGACAGATAAGCACCGGCTAACTCTG 494  
DB 421 CATTAACCTAATAGCTTAGTGTGTTGACGTTACCGACAGATAAGCACCGGCTAACTCTG 480  
QY 495 TGCAGCAGCGCGGTAAATACAGAGGTGCAAGGTTAATCGGAATTAATCGGAATTAATCGGA 554  
DB 481 TGCAGCAGCGCGGTAAATACAGAGGTGCAAGGTTAATCGGAATTAATCGGAATTAATCGGA 540  
QY 555 CGCGCTAGTGTGTTGTTAAGTTGGATGTAATCCCGGCTCACTGGGAGCTGCA 614  
DB 541 CGCGCTAGTGTGTTGTTAAGTTGGATGTAATCCCGGCTCACTGGGAGCTGCA 600  
QY 615 TTCAAACTGACTGACTAGTATGTTAGAGGTGTTGGAATTTCTGCTAGCGGTAA 674  
DB 601 TTCAAACTGACTGACTAGTATGTTAGAGGTGTTGGAATTTCTGCTAGCGGTAA 660  
QY 675 ATCGGTAGATATAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 734  
DB 661 ATCGGTAGATATAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 720  
QY 735 CTGAGGTGCGAAAGCGTGGGAGCAACAGGATTAGATACCTTGGTGTAGTCCAGCGGTAA 794  
DB 721 CTGAGGTGCGAAAGCGTGGGAGCAACAGGATTAGATACCTTGGTGTAGTCCAGCGGTAA 780

QY 795 ACGATGTCAACTAGCCGTTGGAAGCCCTTGAGCTTTTAGTGGCGCAGCTAAACGATTAA 854  
DB 781 ACGATGTCAACTAGCCGTTGGAAGCCCTTGAGCTTTTAGTGGCGCAGCTAAACGATTAA 840  
QY 855 TGACCGCTGGGAGTACGCGCCGCAAGGTTAAACTCAATGAATGAACGGGGCCCGCA 914  
DB 841 TGACCGCTGGGAGTACGCGCCGCAAGGTTAAACTCAATGAATGAACGGGGCCCGCA 900  
QY 915 CAAGCGGTGGAGCATGTGTTTAAATTCGAAGCAACCGGAAGACCTTACCGGCTTGAC 974  
DB 901 CAAGCGGTGGAGCATGTGTTTAAATTCGAAGCAACCGGAAGACCTTACCGGCTTGAC 960  
QY 975 ATCCAATGAATTTCTAGAGATAGATTGCTTGGGAAACATTGAGACAGGTGCTGCA 1034  
DB 961 ATCCAATGAATTTCTAGAGATAGATTGCTTGGGAAACATTGAGACAGGTGCTGCA 1020  
QY 1035 TGGCTGTGCTCAGCTCGTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 1069  
DB 1021 TGGCTGTGCTCAGCTCGTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 1054

## RESULT 7

US-08-114-695A-6  
; Sequence 6, Application US/08114695A  
; Patent No. 5508193  
; GENERAL INFORMATION:  
; APPLICANT: Mandelbaum, Raphael T.  
; APPLICANT: Wackett, Lawrence P.  
; TITLE OF INVENTION: DEGRADATION OF S-TRIAZINES IN SOIL AND  
; TITLE OF INVENTION: WATER  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: SCHWEGMAN, LUNDBERG & WOESSNER, P.A.  
; STREET: 3500 IDS CENTER  
; CITY: MINNEAPOLIS  
; STATE: MN  
; COUNTRY: USA  
; ZIP: 55402  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/114,695A  
; FILING DATE: 31-AUG-1993  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: MUEHLING, ANN M.  
; REGISTRATION NUMBER: 33,977  
; REFERENCE/DOCKET NUMBER: 600.268US1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 612-339-0331  
; TELEFAX: 612-339-3061  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1518 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: rRNA  
; ORIGINAL SOURCE:  
; ORGANISM: Pseudomonas aeruginosa  
US-08-114-695A-6

Query Match 86.0%; Score 920.4; DB 1; Length 1518;  
Best Local Similarity 73.0%; Pred. No. 7,8e-315;  
Matches 779; Conservative 201; Mismatches 86; Indels 1; Gaps 1;  
QY 3 CTTGTCTCAGATTGAACGCTGGCGGAG-GCCTAACACATGCAAGTCGAGCGGTAGAG 61  
DB 18 CAUGGCUCAAGUUAACGCGGCGGAGCCUUAACAUCAUGCAAGCGAGCGAUGAGG 77

		; Patent No. 6677153	
		; GENERAL INFORMATION: Patrick L.	
		; APPLICANT: Iversen, Antisense Antibacterial Method and	
		; TITLE OF INVENTION: Composition	
		; FILE REFERENCE: 0450-0032.30	
		; CURRENT APPLICATION NUMBER: US/09/726,774	
		; CURRENT FILING DATE: 2000-11-29	
		; PRIOR APPLICATION NUMBER: US 60/168,150	
		; PRIOR FILING DATE: 1999-11-29	
		; NUMBER OF SEQ ID NOS: 139	
		; SOFTWARE: FastSeq for Windows Version 4.0	
		; SEQ ID NO 3	
		; LENGTH: 1467	
		; TYPE: DNA	
		; ORGANISM: Pseudomonas aeruginosa	
		US-09-726-774-3	
		Query Match 84.8%; Score 907.4; DB 4; Length 1467;	
		Best Local Similarity 93.9%; Pred. No. 36-310; Mismatches 61; Indels 0; Gaps 0;	
		Matches 944; Conservative	
QY	64	GCTTCCTCTCTTGGAGCGCGGACGCGTGAAGTATGCTAGGAATCTGCTGTAGTG	123
DB	10	GCTTCCTCTCTGATTCAGCGCGGAGCGGTGAGTATGCTAGGAATCTGCTGTAGTG	69
QY	124	GGGGATAACGTTTCGGAACCGGACGCTAATACCGCATACGCTCTACGGGAAGACGGGG	183
DB	70	GGGGACAACGTTTCGGAAGGAACGCTAATACCGCATACGCTCTACGGGAAGACGGGG	129
QY	184	ACCTTCGGGCTTGGCTATCAGATCAGCTAGGTCGATTAGCTAGTGTGTTGAGTAA	243
DB	130	ACCTTCGGGCTTGGGCTATCAGATCAGCTAGGTCGATTAGCTAGTGTGTTGAGTAA	189
QY	244	GGCTACCAAGCGACGATCCGTAATCTGCTGAGAGGATGATCAGTCACTTGAAC	303
DB	190	GGCTACCAAGCGACGATCCGTAATCTGCTGAGAGGATGATCAGTCACTTGAAC	249
QY	304	AGACACGGTCCAGACTCTCTACGGAGCGGACGAGTGGGGATATTGGACATGGCGAAG	363
DB	250	AGACACGGTCCAGACTCTCTACGGAGCGGACGAGTGGGGATATTGGACATGGCGAAG	309
QY	364	CCTGATCCAGCATGCGGCTGTGTAAGAGGTCCTCGGATTTGAAGCACTTTAAGTT	423
DB	310	CCTGATCCAGCATGCGGCTGTGTAAGAGGTCCTCGGATTTGAAGCACTTTAAGTT	369
QY	424	GGGAGGAAGGTTGTAGATTAACTCTGCAATTTTGAACGTTTACCGACAGATAAGCACC	483
DB	370	GGGAGGAAGGTCATTAACTCTGCAATTTTGAACGTTTACCGACAGATAAGCACC	429
QY	484	GGCTAACTCTGTCAGACAGCGCGGTAAATACAGAGGTCGAGCGTTAATCGGAATTAC	543
DB	430	GGCTAACTCTGTCAGACAGCGCGGTAAATACAGAGGTCGAGCGTTAATCGGAATTAC	489
QY	544	TGGCGTTAAAGCGCGGTAGTGTGTTAAAGTTGTAAGTGTGTAATCCCGGGCTCAACC	603
DB	490	TGGCGTTAAAGCGCGGTAGTGTGTTAAAGTTGTAAGTGTGTAATCCCGGGCTCAACC	549
QY	604	TGGGAATCTGCAATTCAGAACTGACTGACTAGAGTATGTTAGAGGTTGTTGGAATTCCTGT	663
DB	550	TGGGAATCTGCAATTCAGAACTGACTGACTAGAGTATGTTAGAGGTTGTTGGAATTCCTGT	609
QY	664	GTAGCGGTAAATCGGTAGATATAGGAAGGAACACAGTGGCGAGGCGACCTCGAC	723
DB	610	GTAGCGGTAAATCGGTAGATATAGGAAGGAACACAGTGGCGAGGCGACCTCGAC	669
QY	724	TAACTACTGACACTGAGGTGGGAGAGCGTGGGAGCAACAGGATTAGATACCTCGGTAGT	783
DB	670	TAACTACTGACACTGAGGTGGGAGAGCGTGGGAGCAACAGGATTAGATACCTCGGTAGT	729
QY	784	CCAGCGCTAAACGATGTCACACTAGCCGTTGGAAGCCTTGTAGTGTGCGGAGCTA	843
DB	730	CCAGCGCTAAACGATGTCACACTAGCCGTTGGAAGCCTTGTAGTGTGCGGAGCTA	789

QY 844 AGCATTAAGTTGACCGCCCTGGGAGTACGGCCGCAAGGTTAAACTCAATCAATTGAC 903  
DB 790 AGCATTAAGTTGACCGCCCTGGGAGTACGGCCGCTAGTTAAACTCAATCAATTGAC 849  
QY 904 GGGGGCCGACACAGCGGTGGAGCATGTGTTAAATCGAAGCAACGCGAAGAACCTTAC 963  
DB 850 GGGGGCCGACACAGCGGTGGAGCATGTGTTAAATCGAAGCAACGCGAAGAACCTTAC 909  
QY 964 CAGGCTTGCATCAATCAATCAATCTTCTAGAGATAGATGCTGCTTGGGAACATTGAGA 1023  
DB 910 CAGGCTTGCATCAATCAATCAATCTTCTAGAGATAGATGCTGCTTGGGAACATTGAGA 969  
QY 1024 CAGGCTTGCATCAATCAATCAATCTTCTAGAGATAGATGCTGCTTGGGAACATTGAGA 1068  
DB 970 CAGGCTTGCATCAATCAATCAATCTTCTAGAGATAGATGCTGCTTGGGAACATTGAGA 1014

RESULT 9  
US-09-726-774-14  
; Sequence 14, Application US/09726774  
; Patent No. 6677153  
; GENERAL INFORMATION:  
; APPLICANT: Iversen, Patrick L.  
; TITLE OF INVENTION: Antisense Antibacterial Method and  
; FILE REFERENCE: 0450-0032.30  
; CURRENT APPLICATION NUMBER: US/09/726,774  
; PRIOR FILING DATE: 2000-11-29  
; PRIOR APPLICATION NUMBER: US 60/168,150  
; PRIOR FILING DATE: 1999-11-29  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14  
; LENGTH: 1487  
; TYPE: DNA  
; ORGANISM: Shigella dysenteriae  
US-09-726-774-14

Query Match 74.9%; Score 801; DB 4; Length 1487;  
Best Local Similarity 85.0%; Pred. No. 1.3e-272;  
Matches 909; Conservative 0; Mismatches 155; Indels 5; Gaps 1;

QY 5 TTGCTCAGATTGAACGCTGGCGGAGGCTTAACACATCGAAGTCGAGCGGTAGAGAGAG 64  
DB 1 TGGCTCAGATTGAACGCTGGCGGAGGCTTAACACATCGAAGTCGAGCGGTAAAGAG 60  
QY 65 CTTCCTTCT 119  
DB 61 CAGCTTCT 120  
QY 120 AGTGGGGGATAACGCTTCCGAAACGAGCGCTTAATACCGCATACGTCCTACGGGAGAGCA 179  
DB 121 GGAGGGGATAACTACTCTGAAACGCTAGCTTAATACCGCATACGTCCTGCAAGACCAAGAG 180  
QY 180 GGGGACCTTCGGGCTTCGCTATFCAGATGAGCCTAGGTCGATTAGTCTAGTCTGAGG 239  
DB 181 GGGGACCTTCGGGCTTCGCTATFCAGATGAGCCTAGGTCGATTAGTCTAGTCTGAGG 240  
QY 240 TAATGGCTCACCAGGCGATCCGCTAATCTGCTGAGAGGATGATCAGTCACTGGA 299  
DB 241 TAAGGCTCACCAGGCGATCCGCTAATCTGCTGAGAGGATGATCAGTCACTGGA 300  
QY 300 ACTGAGACAGGCTCCAGACTCCTACGGGAGGAGCAGTGGGATATTGACATATGGCG 359  
DB 301 ACTGAGACAGGCTCCAGACTCCTACGGGAGGAGCAGTGGGATATTGACATATGGCG 360  
QY 360 AAGGCTTGATCCAGCCATGCGGCTGTGTGAAGAGGCTCTTCGATTGTAAAGCACTTTA 419  
DB 361 CAAGGCTTGATCCAGCCATGCGGCTGTGTGAAGAGGCTCTTCGATTGTAAAGCACTTTA 420  
QY 420 AGTTGGGAGGAGGCTGTGATTAATATCTCTGCAATTTTTCAGCTTACCGAGAGATAAG 479

DB 421 AGCGGGAGGAGGAGTAAAGTTAATACCTTTGCTCAATTGACGTTACCGCGAGAGAG 480  
QY 480 CACCGCTTAACCTGTGTCCAGCAGCGCGTAAATACAGAGGCTGCAAGCGTTAATCGAA 539  
DB 481 CACCGCTTAACCTGTGTCCAGCAGCGCGTAAATACAGAGGCTGCAAGCGTTAATCGAA 540  
QY 540 TTACTGGGCGTAAAGCGCGGTAGTGTGTTTAAAGTTGATGTGAATCCCGGGCTC 599  
DB 541 TTACTGGGCGTAAAGCGCGGTAGTGTGTTTAAAGTTGATGTGAATCCCGGGCTC 600  
QY 600 AACCTGGGAACTGCATTCAAACTGACTGACTAGTATGCTAGAGGCTGTGGAATTTTC 659  
DB 601 AACCTGGGAACTGCATTCAAACTGACTGACTAGTATGCTAGAGGCTGTGGAATTTTC 660  
QY 660 CTGTGTAGCGGTGAAATGCTAGATATATGAAAGGAAACACAGTGGCGAAGGCGACCACT 719  
DB 661 AGGTGTAGCGGTGAAATGCTAGATATATGAAAGGAAACACAGTGGCGAAGGCGGCCCCCT 720  
QY 720 GGACTAATTAAGTACACTGAGTGGCGAAGCGTGGGAGCAAAACAGATTAGATACCTGG 779  
DB 721 GGACGAAATTAAGTACACTGAGTGGCGAAGCGTGGGAGCAAAACAGATTAGATACCTGG 780  
QY 780 TAGTCCAGCGCTAAACGATGTCAACTAGCCGTTGGAAGCCTTGAGCTTTAGTGGCGCA 839  
DB 781 TAGTCCAGCGCTAAACGATGTCAACTAGCCGTTGGAAGCCTTGAGCTTTAGTGGCGCA 840  
QY 840 GCTAACGCTTAAGTTGACCGCTGGGAGTACCGCCCGCAAGGTTAAAACTCAATGAAT 899  
DB 841 GCTAACGCTTAAGTTGACCGCTGGGAGTACCGCCCGCAAGGTTAAAACTCAATGAAT 900  
QY 900 TGACGGGGCGCGCACAGCGGTGAGCATGTGTTTAAATTCGAGCAACGCGAAGAAC 959  
DB 901 TGACGGGGCGCGCACAGCGGTGAGCATGTGTTTAAATTCGAGCAACGCGAAGAAC 960  
QY 960 TTACCGAGCGCTTGACATCAATCAATGAACTTTCTAGAGATAGATTGCTGCTTGGGACATT 1019  
DB 961 TTACCTGCTTGAATCCAGAACCTTTGAGAGATACGAGGCTGCTTGGGACATT 1020  
QY 1020 GAGCAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1068  
DB 1021 GAGCAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1069

RESULT 10  
US-08-757-653-158  
; Sequence 158, Application US/08757653  
; Patent No. 5843669  
; GENERAL INFORMATION:  
; APPLICANT: Kaiser, Michael W.  
; APPLICANT: Lyamichiev, Victor I.  
; APPLICANT: Lyamichiev, Natasha  
; TITLE OF INVENTION: Cleavage Of Nucleic Acid Using  
; TITLE OF INVENTION: Thermostable PEN-1 Endonucleases  
; NUMBER OF SEQUENCES: 190  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Medlen & Carroll, LLP  
; STREET: 220 Montgomery Street, Suite 2200  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: United States Of America  
; ZIP: 94104  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/757,653  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ingolia, Diane E.  
; REGISTRATION NUMBER: 40,027

REFERENCE/DOCKET NUMBER: FORS-025655  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 705-8410  
TELEFAX: (415) 397-8338  
INFORMATION FOR SEQ ID NO: 158:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1542 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-757-653-158

Query Match	74.6%	Score 798.4;	DB 2;	Length 1542;
Best Local Similarity	85.4%	Pred. No. 1.1e-271;		
Matches 915; Conservative		0; Mismatches 151;	Indels 6;	Gaps 2;

3	CTTGTGCTCAGATTGAACGCTGGCGGCAGGCCCTAAACATGCAAGTGCAGCGGT---	AGAG	59
18	CATGGCTCAGATTGAACGCTGGCGGCAGGCCCTAAACATGCAAGTGCAGTAAACAGGA	77	
60	AGAAGCTTTGCTTCT---	CTTGAGAGCGCGCGHACGGGTGAGTAAATGCTTAGCAATCTGCCT	116
78	AGAAGCTTTGCTTCTTTTCTCTGACGAGTGGCGGACGGGTGAGTAAATGTTCTGGGAAATCGCT	137	
117	GGTAGTGGGGGATAAAGTTTCGGAAACGGACGCTAATACCGCATACGTTCTACTACGGGAGAAA	176	
138	GATGGAGGGGGATAACTACTGGAACCGGTAGTCTAATCCGCATACGTCGCAAGACCAA	197	
177	GCAGGGGACCTTCGGGCTTTGCGCTATCAGATGAGCCTAGTGCAGATTAGCTAGTTGGTG	236	
198	GAGGGGACCTTCGGGCTTTGCCATCGATGTCGCCAGATGTCGCCAGATTAGCTAGTAGTG	257	
237	AGGTAATGGCTCACCAAGGCGACATCCGTAACTGTGCTGAGAGCATGATCAGTCACACT	296	
258	GGGTAAACGGGTCACTAGGCGACGATCCCTAGCTTGGTCTGAGAGGATGACGAGCCACACT	317	
297	GGAACTCAGACACGGTCCAGACTCCTACGGGAGGCAGAGTGGGAAATATTGGACAATGG	356	
318	GGAACTCAGACACGGTCCAGACTCCTACGGGAGGCAGAGTGGGAAATATTGGACAATGG	377	
357	GCGAAGCGCTGATCCAGCCATCGCGGTGTGTGAAGAAGGCTCTTCGGATGTGTAAGCACT	416	
378	CGCAAGCGCTGATCGACCCATCGCGGTGTATGAAGAAGGCTTCGGGTGTGTAAGTACT	437	
417	TTAAGTTGGGAGGAAGGTTGTAGATTAACTCTGCAATTTTTCAGCTTTACCGACAGAA	476	
438	TTCAGCGGGAGGAAGGAGTAAAGTTAATACCTTTGCTCATTTGACGTTTACCGCAGAAG	497	
477	AAGCACCGGCTAACTCTGTGCGCAGACCGCCGGTAAATACAGAGGTGCAAGGTTAATCG	536	
498	AAGCACCGGCTAACTCTGTGCGCAGACCGCCGGTAAATACAGAGGTGCAAGGTTAATCG	557	
537	GAATTACTGGCGTAAAGCGCGGTAGGTGGTTTAAAGTTGGAATGTAATATCCCGGG	596	
558	GAATTACTGGCGGTAAAGCGCACCGCCGGTGTGTTAAGTCAGATGTCGAATCCCGGG	617	
597	CTCAACTGGGAACCTGCATTCAAAACCTGACTGAGATGAGGTAGAGGGTGGTGAAT	656	
618	CTCAACTGGGAACCTGCATCTGATACTGGCAAGCTTGAGTCTCGTAGAGGGGGGTAGAA	677	
657	TTCCCTGTCTAGCGGTGAATCGGTAGATATAGGAAGGAACACCAAGTGGCGAAGCGCA	716	
678	TCCAGGTGTAGCGGTGAATCGGTAGATCTGGAGGATACCGGTGGCGAAGCGGCC	737	
717	CCTGACTAATACTGACACTGAGGTGCGAAAGCGTGGGAGCAAAACAGGATTAGATACC	776	
738	CCTGACGAAGACTGACGCTCAGGTGCGAAAGCGTGGGAGCAAAACAGGATTAGATACC	797	
777	TGGTAGTCCACCGGTAAACGATCTCACTAGCCGTTTGGAGCCTTCAGCTTTTAGTGGC	836	
798	TGGTAGTCCACCGGTAAACGATCTGACATCTGGAGGTTGTGCCCTGAGCGGTGGCTTC	857	

Db 318 GGAACUGAGACGGTCCAGACUCCUACCGGAGGACAGUGGGAAUUAUUGCACAAUGG 377  
Qy 357 GCGAAGCCTGATCCAGCCATCGCGCTGTGTGAAGAAGGTCTTCGGATTGTAAAGCACT 416  
Db 378 GCGAAGCCTGATCCAGCCATCGCGCTGTGTGAAGAAGGTCTTCGGATTGTAAAGCACT 437  
Qy 417 TTAAGTTGGAGGAAGGGTTGTAGATTAATCTCTGCAATTTTGAGTTTACCGACAGAA 476  
Db 438 UUCAGCGGGGAGGAGGAGAAAGUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUA 497  
Qy 477 AAGCAGCGGCTAATCTGTGCGAGCGCGCGGTATATACAGAGGGTGCAGGTTAATCG 536  
Db 498 AAGCAGCGGCTAATCTGTGCGAGCGCGCGGTATATACAGAGGGTGCAGGTTAATCG 557  
Qy 537 GAATTAAGTTGGAGGAAGGGTTGTAGATTAATCTCTGCAATTTTGAGTTTACCGACAGAA 596  
Db 558 GAAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAU 617  
Qy 597 CTCACCTGGGAACTGCAATTCGCAATTTTGAGTTTACCGACAGAA 656  
Db 618 CUCACCGGGAACTGCAATTCGCAATTTTGAGTTTACCGACAGAA 677  
Qy 657 TTCCTGTGTAGCGGTGAAATCGGTAGATATAGGAAGAAACACAGTGGCGGACCA 716  
Db 678 UCCAGGUGAGCGGUGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 737  
Qy 717 CTGAGTACCTGAGTACCTGAGTGTGCAAACTGACCTAGATGATGTAGAGGGTGGTGAAT 776  
Db 738 CCUGGACGAGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 797  
Qy 777 TGTAGTCCAGCGCTAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 836  
Db 798 UGUAGUCCAGCGGUAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 857  
Qy 837 GCAGTACGATTAAGTTGACGCTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 896  
Db 858 GGAGCUCAGCGGUAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 917  
Qy 897 AATTGACGGGGCGGCAAGCGGTGGAGATGATGATGATGATGATGATGATGATGATGATG 956  
Db 918 AAUAGCGGGCGGCAAGCGGTGGAGATGATGATGATGATGATGATGATGATGATGATG 977  
Qy 957 ACCTTACAGCGCTGATCATCAATGATGATGATGATGATGATGATGATGATGATGATG 1016  
Db 978 ACCUACCGGUGUUGCAUCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1037  
Qy 1017 ATTGAGACAGTGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1068  
Db 1038 CGUGAGACAGGUG 1089

RESULT 12  
US-08-520-946-158  
; Sequence 158, Application US/08520946  
; Patent No. 6372424  
; GENERAL INFORMATION:  
; APPLICANT: BROW, MARY ANN D.  
; APPLICANT: LYAMICHEV, VICTOR I.  
; APPLICANT: OLIVE, DAVID M.  
; TITLE OF INVENTION: RAPID DETECTION AND IDENTIFICATION OF  
; TITLE OF INVENTION: PATHOGENS  
; NUMBER OF SEQUENCES: 160  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: MEDLEN & CAPROLL  
; STREET: 220 MONTGOMERY STREET, SUITE 2200  
; CITY: SAN FRANCISCO  
; STATE: CALIFORNIA  
; COUNTRY: UNITED STATES OF AMERICA  
; ZIP: 94104  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/520,946  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: CARROLL, PETER G.  
REGISTRATION NUMBER: 32,837  
REFERENCE/DOCKET NUMBER: FORS-01756  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 705-8410  
TELEFAX: (415) 397-8338  
INFORMATION FOR SEQ ID NO: 158:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1542 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-520-946-158  
Query Match 74.6%; Score 798.4; DB 4; Length 1542;  
Best Local Similarity 85.4%; Pred. No. 1.e-271;  
Matches 915; Conservative 0; Mismatches 151; Indels 6; Gaps 2;  
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QY	837	GCAGCTAACGCAATTAAGTTGACGCTTGGAGGAGTACGCGCCGCAAGCTTAACTCA	896
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US-09-655-378A-158			
Sequence 158, Application US/09655378A			
Patent No. 6673616			
GENERAL INFORMATION:			
APPLICANT: BROW, MARY ANN D.			
LYAMICHEV, VICTOR I.			
OLIVE, DAVID M.			
TITLE OF INVENTION: RAPID DETECTION AND IDENTIFICATION OF			
PATHOGENS			
NUMBER OF SEQUENCES: 165			
CORRESPONDENCE ADDRESS:			
ADDRESS: MEDLEN & CARROLL			
STREET: 220 MONTGOMERY STREET, SUITE 2200			
CITY: SAN FRANCISCO			
STATE: CALIFORNIA			
COUNTRY: UNITED STATES OF AMERICA			
ZIP: 94104			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: PatentIn Release #1.0, Version #1.30			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/09/655,378A			
FILING DATE: 05-Sep-2000			
CLASSIFICATION: <Unknown>			
ATTORNEY/AGENT INFORMATION:			
NAME: CARROLL, PETER G.			
REGISTRATION NUMBER: 32,837			
REFERENCE/DOCKET NUMBER: FORS-01756			
TELECOMMUNICATION INFORMATION:			
TELEPHONE: (415) 705-8410			
TELEFAX: (415) 397-8338			
INFORMATION FOR SEQ ID NO: 158:			
SEQUENCE CHARACTERISTICS:			
LENGTH: 1542 base pairs			
TYPE: nucleic acid			
STRANDEDNESS: double			
TOPOLOGY: linear			
MOLECULE TYPE: DNA (genomic)			
SEQUENCE DESCRIPTION: SEQ ID NO: 158:			
US-09-655-378A-158			
Query Match 74.6%; Score 798.4; DB 4; Length 1542;			
Best Local Similarity 85.4%; Pred. No. 1.1e-271;			
Matches 915; Conservative 0; Mismatches 151; Indels 6; Gaps 2;			



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Qy	778	GGTAGTCCAGCGCTAAACCATGTCAACTAGCCGTTGGAAGCCTTTAGTGGCG	837							
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Db	858	GAGCTAACGCTTAAAGTAGAGTGTCTGGGAGTACGCGCCGCAAGGTTAAACTCAATGA	917							
Qy	898	ATTGACGGGGCCGCAACAGCGGTGGAGCATGTGTTAATTCGAAGCAACGCAAGAA	957							
Db	918	ATTGACGGGGCCGCAACAGCGGTGGAGCATGTGTTAATTCGATGCAACGCGAAGAA	977							
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Db	1038	GTGAGACAGGTGCTGATGGCTGTGTCAGTCTGTTGTGAATGTAAAG	1088							

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Job time : 90.1432 secs



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: September 24, 2004, 11:55:08 ; Search time 545.047 Seconds  
(without alignments)  
9943.172 Million cell updates/sec

Title: US-09-737-297-2

Perfect score: 1070

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Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3337386 seqs, 2532474682 residues

Total number of hits satisfying chosen parameters: 6674772

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:  
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19: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	1056.4	98.7	1140	9	US-09-737-297-5
3	990	92.5	1424	15	US-10-007-527A-12
4	990	92.5	1424	15	US-10-007-452-12
5	990	92.5	1424	17	US-10-415-562A-12
6	985.2	92.1	1501	9	US-09-791-592-1
7	985.2	92.1	1501	9	US-09-475-476-1
8	985.2	92.1	1501	9	US-09-821-016-5
9	985.2	92.1	1501	9	US-09-748-205-1
10	985.2	92.1	1501	9	US-09-793-920A-1
11	985.2	92.1	1501	9	US-09-951-720-1
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14	985.2	92.1	1501	15	US-10-218-519-5

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24 856 80.0 1537 15 US-10-029-397A-46 Sequence 1, Appli
25 832.6 77.8 1481 9 US-09-737-297-4 Sequence 1, Appli
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28 808.2 75.5 1542 17 US-10-361-002-6 Sequence 5, Appli
29 808.2 75.5 1494 14 US-10-007-725-5 Sequence 47, Appli
30 807 75.4 1467 15 US-10-029-397A-47 Sequence 35, Appli
31 805.4 75.3 1534 15 US-10-029-397A-35 Sequence 14, Appli
32 803.8 75.1 1534 15 US-09-726-774-14 Sequence 14, Appli
33 801 74.9 1487 9 US-10-029-397A-48 Sequence 48, Appli
34 801 74.9 1487 17 US-10-719-633-14 Sequence 3, Appli
35 793.6 74.7 1485 15 US-09-027-439-3 Sequence 158, App
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44 798 74.6 1505 9 US-09-027-439-4 Sequence 7, Appli
45 791 73.9 1453 9 US-09-027-439-5 Sequence 4, Appli

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## ALIGNMENTS

## RESULT 1

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; Sequence 2, Application US/09737297
; Patent No. US20020072108A1
; GENERAL INFORMATION:
; APPLICANT: Berry, Mark
; APPLICANT: Griffiths, Allen
; APPLICANT: Hill, Philip
; APPLICANT: Laybourne-Parry, Johanna
; APPLICANT: Mills, Sarah
; TITLE OF INVENTION: Processes and Organisms for the Production of Antifreeze Proteins
; FILE REFERENCE: F3247
; CURRENT APPLICATION NUMBER: US/09/737,297
; CURRENT FILING DATE: 2000-12-15
; PRIOR APPLICATION NUMBER: GB 9929696.4
; PRIOR FILING DATE: 1999-12-15
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 1070
; TYPE: DNA
; ORGANISM: Pseudomonas (NCIMB 41076)
US-09-737-297-2

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Query Match 100.0%; Score 1070; DB 9; Length 1070;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1070; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 5  
US-10-415-562A-12  
; Sequence 12, Application US/10415562A  
; Publication No. US20040115661A1  
; GENERAL INFORMATION:  
; APPLICANT: E.I. du Pont de Nemours and Company  
; TITLE OF INVENTION: Rhodococcus Cloning and Expression Vectors  
; FILE REFERENCE: C11709 US PCT  
; CURRENT APPLICATION NUMBER: US/10415,562A  
; CURRENT FILING DATE: 2003-11-17  
; PRIOR APPLICATION NUMBER: 60/254,868  
; PRIOR FILING DATE: 2000-12-12  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: Microsoft Office 97  
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; LENGTH: 1424  
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Best Local Similarity 98.0%; Pred. No. 8.4e-296;  
Matches 1002; Conservative 0; Mismatches 20; Indels 0; Gaps 0;  
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QY 167 ACGGAGAAAGCAGGGACCTTTCGGGCTTTCGCTATCAGATGAGCCCTAGTTCGATAG 226  
Db 121 ACGGAGAAAGCAGGGACCTTTCGGGCTTTCGCTATCAGATGAGCCCTAGTTCGATAG 180  
QY 227 CTAGTTGCTGAGTAAATGCTTTCGAGCGGAGCGCTTTCGCTATCAGATGAGCGATGAT 286  
Db 181 CTAGTTGCTGAGTAAATGCTTTCGAGCGGAGCGCTTTCGCTATCAGATGAGCGATGAT 240  
QY 287 CAGTCACACTGGAATCTGAGACACGCTTTCGAGCGGAGCGCTTTCGCTATCAGATGAGCGATGAT 346  
Db 241 CAGTCACACTGGAATCTGAGACACGCTTTCGAGCGGAGCGCTTTCGCTATCAGATGAGCGATGAT 300  
QY 347 TCGAACAATGGGAAAGCCTTTCGAGCGGAGCGCTTTCGAGCGGAGCGCTTTCGAT 406  
Db 301 TCGAACAATGGGAAAGCCTTTCGAGCGGAGCGCTTTCGAGCGGAGCGCTTTCGAT 360  
QY 407 GTAAAGCACTTTAAGTTGGGAGGAGGCTTTCGATTAATCTCTGCAATTTTGACGTTA 466  
Db 361 GTAAAGCACTTTAAGTTGGGAGGAGGCTTTCGATTAATCTCTGCAATTTTGACGTTA 420  
QY 467 CCGACAGAATAAGCAGCGCTTTCGAGCGGAGCGCTTTCGAGCGGAGCGCTTTCGAT 526  
Db 421 CCGACAGAATAAGCAGCGCTTTCGAGCGGAGCGCTTTCGAGCGGAGCGCTTTCGAT 480  
QY 527 GCGTTAATCGGAATTTAAGTTGGGAGGAGGCTTTCGATTAATCTCTGCAATTTTGACGTTA 586  
Db 481 GCGTTAATCGGAATTTAAGTTGGGAGGAGGCTTTCGATTAATCTCTGCAATTTTGACGTTA 540  
QY 587 AATCCCGGGCTCAACTCGGAGCTTTCGAGCGGAGCGCTTTCGAGCGGAGCGCTTTCGAT 646  
Db 541 AATCCCGGGCTCAACTCGGAGCTTTCGAGCGGAGCGCTTTCGAGCGGAGCGCTTTCGAT 600  
QY 647 GTGGTGAATTTCTCTGTAGCGGTGAATGCGGTAGATATAGGAAGAAACACAGTGGCG 706  
Db 601 GTGGTGAATTTCTCTGTAGCGGTGAATGCGGTAGATATAGGAAGAAACACAGTGGCG 660  
QY 707 AAGCGCAACCACTGGAATTTAAGTTGGGAGGAGGCTTTCGATTAATCTCTGCAATTTTGACGTTA 766  
Db 661 AAGCGCAACCACTGGAATTTAAGTTGGGAGGAGGCTTTCGATTAATCTCTGCAATTTTGACGTTA 720  
QY 767 TTAGATACCTTGGTGTAGTCCAGCGGCTTTCGAGCGGAGCGCTTTCGAGCGGAGCGCTTTCGAT 826





QY 855 TGACCGCTGGGAGTACGCGCCAAAGTTTAAACTCAAATGAATTGACGGGGCCCGCA 914  
Db |||||  
QY 841 TGACCGCTGGGAGTACGCGCCAAAGTTTAAACTCAAATGAATTGACGGGGCCCGCA 900  
Db |||||  
QY 915 CAAAGCGTGGAGCATGCTGTTTAAATTCGAAGCAACGCGAAGAACCTTACAGCCCTTGAC 974  
Db |||||  
QY 901 CAAAGCGTGGAGCATGCTGTTTAAATTCGAAGCAACGCGAAGAACCTTACAGCCCTTGAC 960  
Db |||||  
QY 975 ATCCAAATGAACCTTTCTAGAGATAGATTGGTCCCTTCGGGAACATTGAGACAGGTGCTGCA 1034  
Db |||||  
QY 961 ATCCAAATGAACCTTTCTAGAGATAGATTGGTCCCTTCGGGAACATTGAGACAGGTGCTGCA 1020  
Db |||||  
QY 1035 TGGCTGCTGAGCTGCTGTTGTAAGTAAAGG 1068  
Db |||||  
QY 1021 TGGCTGCTGAGCTGCTGTTGTAAGTAAAGG 1054  
Db |||||

RESULT 9  
US-09-748-205-1  
; Sequence 1, Application US/09748205  
; Patent No. US200202253A1  
; GENERAL INFORMATION:  
; APPLICANT: Canon Inc.  
; TITLE OF INVENTION: Polyhydroxyalkanoate its manufacturing method, and microorganism  
; FILE REFERENCE: 4351009  
; CURRENT APPLICATION NUMBER: US/09/748,205  
; CURRENT FILING DATE: 2000-12-27  
; NUMBER OF SEQ ID NOS: 1  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii 161 strain.

Query Match 92.1%; Score 985.2; DB 9; Length 1501;  
Best Local Similarity 95.9%; Pred. No. 2.6e-294;  
Matches 1011; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 15 TGAACGCTGGCGGAGCTAACACATGCAAGTTCGAGCGGTAGAGAGAGTTCGTTCTC 74  
Db |||||  
QY 1 TGAACGCTGGCGGAGCTAACACATGCAAGTTCGAGCGGTAGAGAGAGTTCGTTCTC 60  
Db |||||  
QY 75 TTGAGAGCGGCGGAGCTGAGTAAATGCTAGGAACTGCTGCTAGTGGGGGTAACGT 134  
Db |||||  
QY 61 AATTGAGCGGCGGAGCTGAGTAAATGCTAGGAACTGCTGCTAGTGGGGGTAACGT 120  
Db |||||  
QY 135 TCGGAAACGAGCGCTAATACCGCATACGCTCTACGGGAGAAAGCAGGGGACCTTCGGGCC 194  
Db |||||  
QY 121 CTGAAAGGAGCGCTAATACCGCATACGCTCTACGGGAGAAAGCAGGGGACCTTCGGGCC 180  
Db |||||  
QY 195 TTGCGCTATCAGATGAGCTAGGTCGAGTATGCTAGTTCGAGTAAATGCTGCTACCAAG 254  
Db |||||  
QY 181 TTGCGCTATCAGATGAGCTAGGTCGAGTATGCTAGTTCGAGTAAATGCTGCTACCAAG 240  
Db |||||  
QY 255 GCGACGATCGTAACTGCTGAGAGGATGATCAGTCACTGCACTGAGACACGCTCC 314  
Db |||||  
QY 241 GCGACGATCGTAACTGCTGAGAGGATGATCAGTCACTGCACTGAGACACGCTCC 300  
Db |||||  
QY 315 AGACTCCTACGGGAGCGAGCTAGGTCGAGTATGCTAGTTCGAGTAAATGCTGCTACCAAG 374  
Db |||||  
QY 301 AGACTCCTACGGGAGCGAGCTAGGTCGAGTATGCTAGTTCGAGTAAATGCTGCTACCAAG 360  
Db |||||  
QY 375 CATGCGCGTGTGTAAGAGGTCCTCGGATTCGAGTAAATGCTGCTACCAAG 434  
Db |||||  
QY 361 CATGCGCGTGTGTAAGAGGTCCTCGGATTCGAGTAAATGCTGCTACCAAG 420  
Db |||||  
QY 435 TTGAGATTAATCTCTGCAATTTGACGTTACCGACAGATAAGCAGCGGCTAACTCTG 494  
Db |||||  
QY 421 CATTAACCTTAATACGTTAGTGTTCAGCTTACCGACAGATAAGCAGCGGCTAACTCTG 480  
Db |||||  
QY 495 TGCCAGCAGCGCGGTAAATACAGAGGTGCAAGCGTTAAATCGGAATTAATGCGGCGTAAAG 554  
Db |||||

Db 481 TGCCACAGCCGCGTAAATACAGAGGTGCAAGCGTTAAATCGGAATTAATGCGGCGTAAAG 540  
QY 555 CGCGCGTAGTGGTGTGTTTAAAGTTGATGTGAATCCCGGGCTCAACCTGGGAAGTGA 614  
Db |||||  
QY 541 CGCGCGTAGTGGTGTGTTTAAAGTTGATGTGAATCCCGGGCTCAACCTGGGAAGTGA 600  
Db |||||  
QY 615 TTCAAACCTGACTGACTAGAGTATGATGAGGTTGGTGGAAATTTCTGTGTAGCGGTGA 674  
Db |||||  
QY 601 TTCAAACCTGACTGACTAGAGTATGATGAGGTTGGTGGAAATTTCTGTGTAGCGGTGA 660  
Db |||||  
QY 675 ATGCGTAGATATAGGAAGGAACACCAAGTTCGCAAGCGGACCACTGGACTAATACTGACA 734  
Db |||||  
QY 661 ATGCGTAGATATAGGAAGGAACACCAAGTTCGCAAGCGGACCACTGGACTAATACTGACA 720  
Db |||||  
QY 735 CTGAGGTGCGAAAGCGTGGGAGCAAAACAGGATTAAGATACCTGGTGTAGTCCACGCGTAA 794  
Db |||||  
QY 721 CTGAGGTGCGAAAGCGTGGGAGCAAAACAGGATTAAGATACCTGGTGTAGTCCACGCGTAA 780  
Db |||||  
QY 795 AGGATGCTCACTAGCCGTTGGAAGCCTTGAAGCTTTTAGTGGCGCAGCTAACGCAATTAAGT 854  
Db |||||  
QY 781 AGGATGCTCACTAGCCGTTGGAAGCCTTGAAGCTTTTAGTGGCGCAGCTAACGCAATTAAGT 840  
Db |||||  
QY 855 TGACCGCTGGGAGTACGCGCCAAAGCTTAAACTCAAATGAATGAGCGGGGCCCGCA 914  
Db |||||  
QY 841 TGACCGCTGGGAGTACGCGCCAAAGCTTAAACTCAAATGAATGAGCGGGGCCCGCA 900  
Db |||||  
QY 915 CAAAGCGTGGAGCATGCTGTTTAAATTCGAAGCAACGCGAAGAACCTTACCGAGGCTTGAC 974  
Db |||||  
QY 901 CAAAGCGTGGAGCATGCTGTTTAAATTCGAAGCAACGCGAAGAACCTTACCGAGGCTTGAC 960  
Db |||||  
QY 975 ATCCAAATGAACCTTTCTAGAGATAGATTGGTCCCTTCGGGAACATTGAGACAGGTGCTGCA 1034  
Db |||||  
QY 961 ATCCAAATGAACCTTTCTAGAGATAGATTGGTCCCTTCGGGAACATTGAGACAGGTGCTGCA 1020  
Db |||||  
QY 1035 TGGCTGCTGAGCTGCTGTTGTAAGTAAAGG 1068  
Db |||||  
QY 1021 TGGCTGCTGAGCTGCTGTTGTAAGTAAAGG 1054  
Db |||||

RESULT 10  
US-09-793-920A-1  
; Sequence 1, Application US/09793920A  
; Patent No. US20020065389A1  
; GENERAL INFORMATION:  
; APPLICANT: Canon Inc.  
; TITLE OF INVENTION: Polyhydroxyalkanoate containing 3-hydroxythienylalkanoic acid as  
; FILE REFERENCE: 4396021  
; CURRENT APPLICATION NUMBER: US/09/793,920A  
; CURRENT FILING DATE: 2001-02-28  
; NUMBER OF SEQ ID NOS: 1  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii 161 strain.

Query Match 92.1%; Score 985.2; DB 9; Length 1501;  
Best Local Similarity 95.9%; Pred. No. 2.6e-294;  
Matches 1011; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 15 TGAACGCTGGCGGAGCTAACACATGCAAGTTCGAGCGGTAGAGAGAGTTCGTTCTC 74  
Db |||||  
QY 1 TGAACGCTGGCGGAGCTAACACATGCAAGTTCGAGCGGTAGAGAGAGTTCGTTCTC 60  
Db |||||  
QY 75 TTGAGAGCGGCGGAGCTGAGTAAATGCTAGGAACTGCTGCTAGTGGGGGTAACGT 134  
Db |||||  
QY 61 AATTGAGCGGCGGAGCTGAGTAAATGCTAGGAACTGCTGCTAGTGGGGGTAACGT 120  
Db |||||  
QY 135 TCGGAAACGAGCGCTAATACCGCATACGCTCTACGGGAGAAAGCAGGGGACCTTCGGGCC 194  
Db |||||  
QY 121 CTGAAAGGAGCGCTAATACCGCATACGCTCTACGGGAGAAAGCAGGGGACCTTCGGGCC 180  
Db |||||



JP 378827/2000  
JP 165238/2001  
JP 165509/2001  
JP 275063/2001  
PRIOR FILING DATE: 2000-09-14  
2000-12-13  
2001-05-31  
2001-05-31  
2001-09-11  
NUMBER OF SEQ ID NOS: 1  
SEQ ID NO 1  
LENGTH: 1501  
TYPE: DNA  
ORGANISM: Pseudomonas jessenii P161 strain.  
US-09-951-720-1  
Query Match 92.1%; Score 985.2; DB 9; Length 1501;  
Best Local Similarity 95.9%; Pred No. 2.6e-294;  
Matches 1011; Conservative 0; Mismatches 43; Indels 0; Gaps 0;  
QY 15 TGAACGCTGGCGGCGAGGCTTAACATGCAATGCGAGTCGAGCGGTAGAGAGAGCTTGCTTCTC 74  
Db 1 TGAACGCTGGCGGCGAGGCTTAACATGCAATGCGAGTCGAGCGGTAGAGAGAGCTTGCTTCTC 60  
QY 75 TTGAGAGCGGCGGAGCGGCTGAGTAACTCTAGGAACTCTGCTGCTAGTGGGGGATAAAGT 134  
Db 61 AATTGAGCGGCGGAGCGGCTGAGTAACTCTAGGAACTCTGCTGCTAGTGGGGGATAAAGT 120  
QY 135 TCGGAAACGCGAGCTTAATACCGCATACGCTCTACGCGGAGAAAGCAGGGGACCTTCGGGCC 194  
Db 121 CTCGAAAGGAGCGCTTAATACCGCATACGCTCTACGCGGAGAAAGCAGGGGACCTTCGGGCC 180  
QY 195 TTGCGCTATCAGATGAGCGCTAGTTCGGATAGCTAGTTCGGTTCGGTTCGGTTCGGTTC 254  
Db 181 TTGCGCTATCAGATGAGCGCTAGTTCGGATAGCTAGTTCGGTTCGGTTCGGTTCGGTTC 240  
QY 255 GCGACGATCCGTAACTGCTGAGAGGATGATCAGTCACTGGAACCTGAGACACCGTCC 314  
Db 241 GCGACGATCCGTAACTGCTGAGAGGATGATCAGTCACTGGAACCTGAGACACCGTCC 300  
QY 315 AGACTCTCAGGAGGCGAGCGAGTGGGGAATATTGGAACAATGGCGGAAAGCCTGATCCAGC 374  
Db 301 AGACTCTCAGGAGGCGAGCGAGTGGGGAATATTGGAACAATGGCGGAAAGCCTGATCCAGC 360  
QY 375 CATGCCGCTGTGTGAAGAGGCTTCGGAATTGTAAGACACTTTAAGTTGGGAGGAGGG 434  
Db 361 CATGCCGCTGTGTGAAGAGGCTTCGGAATTGTAAGACACTTTAAGTTGGGAGGAGGG 420  
QY 435 TTGTAGATTAATTAATCTGCAATTTTGAAGTTCAGCTTACCGACAGAAATAGCACCGGCTAACCTCTG 494  
Db 421 CATTAACCTTAATTAATCTGCAATTTTGAAGTTCAGCTTACCGACAGAAATAGCACCGGCTAACCTCTG 480  
QY 495 TGCAGCAGCGCGGTAAATACAGAGGTCGAAAGCTTAATCGGAATTAATCGGGGTAAG 554  
Db 481 TGCAGCAGCGCGGTAAATACAGAGGTCGAAAGCTTAATCGGAATTAATCGGGGTAAG 540  
QY 555 CGCGCTAGTGGTTTGTAAAGTTGGAATCCCGGCTCAACCTGGGAACTGCA 614  
Db 541 CGCGCTAGTGGTTTGTAAAGTTGGAATCCCGGCTCAACCTGGGAACTGCA 600  
QY 615 TTCAAACTGACAGCTAGATGATGAGGGTGGTGAATTTCTGTGTAGCGGTAA 674  
Db 601 TTCAAACTGACAGCTAGATGATGAGGGTGGTGAATTTCTGTGTAGCGGTAA 660  
QY 675 ATGCTAGATATAGGAAGAACACCACTGGGAGAGGCGACCACTGACATAACTGCA 734  
Db 661 ATGCTAGATATAGGAAGAACACCACTGGGAGAGGCGACCACTGACATAACTGCA 720  
QY 735 CTGAGGTGCGAAAGCGTGGGAGCAACAGGATTAATACCTGCTAGTCCACGCGGTAA 794  
Db 721 CTGAGGTGCGAAAGCGTGGGAGCAACAGGATTAATACCTGCTAGTCCACGCGGTAA 780  
QY 795 ACGATGTCAACTAGCGCTTGAAGCGCTTGAAGCTTTTGTAGTGGCGAGCTAACGATTAAGT 854  
Db 781 ACGATGTCAACTAGCGCTTGAAGCGCTTGAAGCTTTTGTAGTGGCGAGCTAACGATTAAGT 840  
QY 855 TGACCGCTGGGAGTACCGCGCGAAGGTTAAACTCTCAATGATTAAGTCAAGCGGCGCGCA 914  
Db 841 TGACCGCTGGGAGTACCGCGCGAAGGTTAAACTCTCAATGATTAAGTCAAGCGGCGCGCA 900  
QY 915 CAAGCGGTGAGCATGTGTTTAAATTCGAAGCAACGCGGAGCTTACCGAGCTTGTAC 974  
Db 901 CAAGCGGTGAGCATGTGTTTAAATTCGAAGCAACGCGGAGCTTACCGAGCTTGTAC 960  
QY 975 ATCCAAATGAATTTCTAGAGATAGATTTGCTGCTTCGGGAACATTTGAGACAGGTGCTGCA 1034  
Db 961 ATCCAAATGAATTTCTAGAGATAGATTTGCTGCTTCGGGAACATTTGAGACAGGTGCTGCA 1020  
QY 1035 TGGCTGTGCTCAGCTGCTGTTGTAATGTAAG 1068  
Db 1021 TGGCTGTGCTCAGCTGCTGCTGAGATGTTGG 1054

QY 195 TTGCGCTATCAGATGAGCGCTAGTTCGGATTAATGCTAGTTCGGTTCGGTTCGGTTCGGTTC 254  
Db 181 TTGCGCTATCAGATGAGCGCTAGTTCGGATTAATGCTAGTTCGGTTCGGTTCGGTTCGGTTC 240  
QY 255 GCGAGGATCCGTAATCTGCTGAGAGGATGATCAGTCACTGGAACCTGAGACAGCGTCC 314  
Db 241 GCGAGGATCCGTAATCTGCTGAGAGGATGATCAGTCACTGGAACCTGAGACAGCGTCC 300  
QY 315 AGACTCTCAGGAGGCGAGCTTCGGATTTGGAACAATGGCGGAAAGCCTGATCCAGC 374  
Db 301 AGACTCTCAGGAGGCGAGCTTCGGATTTGGAACAATGGCGGAAAGCCTGATCCAGC 360  
QY 375 CATGCCGCTGTGTGAAGAGGCTTCGGATTTGGAACAATGGCGGAAAGCCTGATCCAGC 434  
Db 361 CATGCCGCTGTGTGAAGAGGCTTCGGATTTGGAACAATGGCGGAAAGCCTGATCCAGC 420  
QY 435 TTGTAGATTAATTAATCTGCAATTTTGAAGTTCAGCTTACCGACAGAAATAGCACCGGCTAACCTCTG 494  
Db 421 CATTAACCTTAATTAATCTGCAATTTTGAAGTTCAGCTTACCGACAGAAATAGCACCGGCTAACCTCTG 480  
QY 495 TGCAGCAGCGCGGTAAATACAGAGGTCGAAAGCTTAATCGGAATTAATCGGGGTAAG 554  
Db 481 TGCAGCAGCGCGGTAAATACAGAGGTCGAAAGCTTAATCGGAATTAATCGGGGTAAG 540  
QY 555 CGCGCTAGTGGTTTGTAAAGTTGGAATCCCGGCTCAACCTGGGAACTGCA 614  
Db 541 CGCGCTAGTGGTTTGTAAAGTTGGAATCCCGGCTCAACCTGGGAACTGCA 600  
QY 615 TTCAAACTGACAGCTAGATGATGAGGGTGGTGAATTTCTGTGTAGCGGTAA 674  
Db 601 TTCAAACTGACAGCTAGATGATGAGGGTGGTGAATTTCTGTGTAGCGGTAA 660  
QY 675 ATGCTAGATATAGGAAGAACACCACTGGGAGAGGCGACCACTGACATAACTGCA 734  
Db 661 ATGCTAGATATAGGAAGAACACCACTGGGAGAGGCGACCACTGACATAACTGCA 720  
QY 735 CTGAGGTGCGAAAGCGTGGGAGCAACAGGATTAATACCTGCTAGTCCACGCGGTAA 794  
Db 721 CTGAGGTGCGAAAGCGTGGGAGCAACAGGATTAATACCTGCTAGTCCACGCGGTAA 780  
QY 795 ACGATGTCAACTAGCGCTTGAAGCGCTTGAAGCTTTTGTAGTGGCGAGCTAACGATTAAGT 854  
Db 781 ACGATGTCAACTAGCGCTTGAAGCGCTTGAAGCTTTTGTAGTGGCGAGCTAACGATTAAGT 840  
QY 855 TGACCGCTGGGAGTACCGCGCGAAGGTTAAACTCTCAATGATTAAGTCAAGCGGCGCGCA 914  
Db 841 TGACCGCTGGGAGTACCGCGCGAAGGTTAAACTCTCAATGATTAAGTCAAGCGGCGCGCA 900  
QY 915 CAAGCGGTGAGCATGTGTTTAAATTCGAAGCAACGCGGAGCTTACCGAGCTTGTAC 974  
Db 901 CAAGCGGTGAGCATGTGTTTAAATTCGAAGCAACGCGGAGCTTACCGAGCTTGTAC 960  
QY 975 ATCCAAATGAATTTCTAGAGATAGATTTGCTGCTTCGGGAACATTTGAGACAGGTGCTGCA 1034  
Db 961 ATCCAAATGAATTTCTAGAGATAGATTTGCTGCTTCGGGAACATTTGAGACAGGTGCTGCA 1020  
QY 1035 TGGCTGTGCTCAGCTGCTGTTGTAATGTAAG 1068  
Db 1021 TGGCTGTGCTCAGCTGCTGCTGAGATGTTGG 1054

RESULT 11  
US-09-951-720-1  
Sequence 1, Application US/09951720  
Patent No. US20020160467A1  
GENERAL INFORMATION:  
APPLICANT: Canon Kabushiki Kaisha  
TITLE OF INVENTION: Polyhydroxyalkanoate and Manufacturing Method Thereof  
FILE REFERENCE: 4477001  
CURRENT APPLICATION NUMBER: US/09/951,720  
CURRENT FILING DATE: 2000-09-14  
PRIOR APPLICATION NUMBER: JP 279900/2000





; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 1  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii 161 strain  
US-10-649-646-1

Query Match 92.1%; Score 985.2; DB 13; Length 1501;  
Best Local Similarity 95.9%; Pred. No. 2.6e-294;  
Matches 1011; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 15 TGAACGCTGGCGGACAGGCTTAACACATCAAGTCGAGCGGTAGAGAGAGCTTGTCTTC 74  
Db 1 TGAACGCTGGCGGACAGGCTTAACACATCAAGTCGAGCGGTAGAGAGAGCTTGTCTTC 60  
QY 75 TTGAGAGCGGCGGACGCGGTAGTATGCTAGGAATCTGCCTGGTGTAGTGGGGGATAACGT 134  
Db 61 AATTTCAGCGCGGACGCGGTAGTATGCTAGGAATCTGCCTGGTGTAGTGGGGGATAACGT 120  
QY 135 TCGGAAACGCGGACGCTTAATACCGCATACGTCCTACCGGAGAAAGCAGGAGACCTTCGGGCC 194  
Db 121 CTCGAAAGGACGCTTAATACCGCATACGTCCTACCGGAGAAAGCAGGAGACCTTCGGGCC 180  
QY 195 TTGCGCTATCAGATGAGCTTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCT 254  
Db 181 TTGCGCTATCAGATGAGCTTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCT 240  
QY 255 GCGAGATCCGTAACCTGGTCTCAGAGGATGATCAGTCACTGGAACCTGAGACACGGTCC 314  
Db 241 GCGAGATCCGTAACCTGGTCTCAGAGGATGATCAGTCACTGGAACCTGAGACACGGTCC 300  
QY 315 AGACTCTTACGCGGACGACGAGTGGGAAATATGGACAATGGCGGAAAGCCTGATCCAGC 374  
Db 301 AGACTCTTACGCGGACGACGAGTGGGAAATATGGACAATGGCGGAAAGCCTGATCCAGC 360  
QY 375 CATGCCGCTGTGTGAAGAGGTCTTCGGATTTGAGCTTACCGACAGAAATAGCACCGGCTAA 434  
Db 361 CATGCCGCTGTGTGAAGAGGTCTTCGGATTTGAGCTTACCGACAGAAATAGCACCGGCTAA 420  
QY 435 TTGTAGATTAATCTCTGCAATTTTGAAGTTTGAAGTTTGAAGTTTGAAGTTTGAAGTTT 494  
Db 421 CATTAACCTTAATCTCTGCAATTTTGAAGTTTGAAGTTTGAAGTTTGAAGTTTGAAGTT 480  
QY 495 TGCACGACGCGCGGTAATACAGAGGCTGCAAGGCTTAATCGGAATTAATCGGCTTAAG 554  
Db 481 TGCACGACGCGCGGTAATACAGAGGCTGCAAGGCTTAATCGGAATTAATCGGCTTAAG 540  
QY 555 CGGCGTAGTGTGTTTGAAGTTTGAAGTTTGAAGTTTGAAGTTTGAAGTTTGAAGTTTGA 614  
Db 541 CGGCGTAGTGTGTTTGAAGTTTGAAGTTTGAAGTTTGAAGTTTGAAGTTTGAAGTTTGA 600  
QY 615 TTCAAACCTGACTGACTAGATGATGAGAGGCTGAGGATTTCTTGTGTAGCGGTGAA 674  
Db 601 TTCAAACCTGACTGACTAGATGATGAGAGGCTGAGGATTTCTTGTGTAGCGGTGAA 660  
QY 675 ATCGGTAGATPATAGGAAGAACACCAAGTGGGAAAGGACCACTGACTTAATCTGACA 734  
Db 661 ATCGGTAGATPATAGGAAGAACACCAAGTGGGAAAGGACCACTGACTTAATCTGACA 720  
QY 735 CTGAGGTGCGAAGCGTGGGAGCAACACAGATTTAGATACCTCGTGTAGTCCAGCCGTAA 794  
Db 721 CTGAGGTGCGAAGCGTGGGAGCAACACAGATTTAGATACCTCGTGTAGTCCAGCCGTAA 780  
QY 795 ACGATGTCAATAGCCGTTGGAAGCTTTGAGCTTTTATGTCGCGCAGCTTAACGCAATTA 854  
Db 781 ACGATGTCAATAGCCGTTGGAAGCTTTGAGCTTTTATGTCGCGCAGCTTAACGCAATTA 840  
QY 855 TGACCGCTGGGAGTACGGCGGCAAGGTTTAAACTCAATGAATTAAGTCAAGCCGCGCCGCA 914  
Db 841 TGACCGCTGGGAGTACGGCGGCAAGGTTTAAACTCAATGAATTAAGTCAAGCCGCGCCGCA 900

RESULT 14

US-10-218-519-5  
; Sequence 5, Application US/10218519  
; Publication No. US20030049806A1  
; GENERAL INFORMATION:  
; APPLICANT: Yano, Tetsuya  
; APPLICANT: Imamura, Takeshi  
; APPLICANT: Suda, Sakae  
; APPLICANT: Honma, Tsutomu  
; TITLE OF INVENTION: Polynhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme  
; FILE REFERENCE: 03500.015225.1  
; CURRENT APPLICATION NUMBER: US/10/218,519  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/821,016  
; PRIOR FILING DATE: 2001-03-30  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: Microsoft Word  
; SEQ ID NO 5  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii P161 ; BP-7376  
; FEATURE: cDNA to 16S rRNA  
US-10-218-519-5

Query Match 92.1%; Score 985.2; DB 15; Length 1501;  
Best Local Similarity 95.9%; Pred. No. 2.6e-294;  
Matches 1011; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 15 TGAACGCTGGCGGACGCTTAACACATGCAAGTCGAGCGGTAGAGAGAGCTTGTCTTC 74  
Db 1 TGAACGCTGGCGGACGCTTAACACATGCAAGTCGAGCGGTAGAGAGAGCTTGTCTTC 60  
QY 75 TTGAGAGCGGCGGACGCGGTGAGTAAATGCTAGGAATCTGCCTGGTGTAGTGGGGGATAACGT 134  
Db 61 AATTTCAGCGCGGACGCGGTGAGTAAATGCTAGGAATCTGCCTGGTGTAGTGGGGGATAACGT 120  
QY 135 TCGGAAACGCGGACGCTTAATACCGCATACGTCCTACCGGAGAAAGCAGGAGACCTTCGGGCC 194  
Db 121 CTCGAAAGGACGCTTAATACCGCATACGTCCTACCGGAGAAAGCAGGAGACCTTCGGGCC 180  
QY 195 TTGCGCTATCAGATGAGCTTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCT 254  
Db 181 TTGCGCTATCAGATGAGCTTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCT 240  
QY 255 GCGACGATCCGTAACCTGGTCTGAGAGGATGATCAGTCACTGGAACCTGAGACACGGTCC 314  
Db 241 GCGACGATCCGTAACCTGGTCTGAGAGGATGATCAGTCACTGGAACCTGAGACACGGTCC 300  
QY 315 AGACTCTTACGCGGACGACGAGTGGGAAATATGGACAATGGCGGAAAGCCTGATCCAGC 374  
Db 301 AGACTCTTACGCGGACGACGAGTGGGAAATATGGACAATGGCGGAAAGCCTGATCCAGC 360  
QY 375 CATGCCGCTGTGTGAAGAGGTCTTCGGATTTGAGCTTGTAAAGCACTTTAAGTTGGGAGAGGG 434  
Db 361 CATGCCGCTGTGTGAAGAGGTCTTCGGATTTGAGCTTGTAAAGCACTTTAAGTTGGGAGAGGG 420  
QY 435 TTGTAGATTAATCTCTGCAATTTTGAAGTTTGAAGTTTGAAGTTTGAAGTTTGAAGTTT 494  
Db 421 CATTAACCTTAATCTCTGCAATTTTGAAGTTTGAAGTTTGAAGTTTGAAGTTTGAAGTT 480

Qy	495	TGCCAGCAGCCGCGTAAATACAGAGGGTCAAGCGTTAATCGGAATTTACTGGCGTAAAG	554
Db	481	TGCCAGCAGCCGCGTAAATACAGAGGGTGCAGCGTTAATCGGAATTTACTGGCGTAAAG	540
Qy	555	CGCGGTAGGTGGTTTGTTAAGTTGATGTGAAATCCCGGGCTCAACTGGGAATCGCA	614
Db	541	CGCGGTAGGTGGTTTGTTAAGTTGATGTGAAAGCCCGGGCTCAACTGGGAATCGCA	600
Qy	615	TTCAAACTGACTGACTAGAGTATGTCAGAGGGTGGTGAATTTCTGTGTAGCGGTGAA	674
Db	601	TTCAAACTGACAGACTAGAGTATGTCAGAGGGTGGTGAATTTCTGTGTAGCGGTGAA	660
Qy	675	ATGCGTAGATATAGAAAGGAACACCAAGTGGCGAAAGCGACCACTGGACTAATCTGACA	734
Db	661	ATGCGTAGATATAGAAAGGAACACCAAGTGGCGAAAGCGACCACTGGACTAATCTGACA	720
Qy	735	CTGAGGTGCGAAGCGTGGGGAGCAACAGGATTAGATACCTGTGTAGTCCACGCCGTAA	794
Db	721	CTGAGGTGCGAAGCGTGGGGAGCAACAGGATTAGATACCTGTGTAGTCCACGCCGTAA	780
Qy	795	ACGATGTCAACTAGCCGTTTGGGAAGCCTTGAGCTTTTAGTGGCGCAGCTAAGCGCATTAAGT	854
Db	781	ACGATGTCAACTAGCCGTTTGGGAAGCCTTGAGCTTTTAGTGGCGCAGCTAAGCGCATTAAGT	840
Qy	855	TGACCGCCTGGGGAGTAGCGCCGCAAGGTTAAACTCAAATGAATTGACGGGGGCCCGCA	914
Db	841	TGACCGCCTGGGGAGTAGCGCCGCAAGGTTAAACTCAAATGAATTGACGGGGGCCCGCA	900
Qy	915	CAAGCGGTGGAGCATGTGGTTTAAATTCGAAGCAACGCGAAGAACTTACAGGCGTTGAC	974
Db	901	CAAGCGGTGGAGCATGTGGTTTAAATTCGAAGCAACGCGAAGAACTTACAGGCGTTGAC	960
Qy	975	ATCCAAATGAATTTCTAGAGATAGATTGGTGCCTTCGGGAAACATTTGAGACAGGTGCTGCA	1034
Db	961	ATCCAAATGAATTTCCAGAGATGATGGTGCCTTCGGGAAACATTTGAGACAGGTGCTGCA	1020
Qy	1035	TGGCTGTGTCAGCTCGTGTGTGAAATGTAAAG	1068
Db	1021	TGGCTGTGTCAGCTCGTGTGTGAAATGTAAAG	1054

RESULT 15

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US-10-266-787-5
; Sequence 5, Application US/10266787
; Publication No. US2003082777A1
; GENERAL INFORMATION:
; APPLICANT: Yano, Tetsuya
; APPLICANT: Imamura, Takeshi
; APPLICANT: Suda, Sakae
; APPLICANT: Honma, Tsutomu
; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme
; FILE REFERENCE: 03500.015225.3
; CURRENT APPLICATION NUMBER: US/10/266,787
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: JP 2000-095004
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Word
; SEQ ID NO 5
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 ; BP-7376
; FEATURE:
; FEATURE: cDNA to 16S rRNA
US-10-266-787-5

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Db	1	TGAACGCTGGCGGACGGCCCTAAACACATGCAAGTCGAGCGGATGACGGGAGACTTGCTCCTG	60
QY	75	TTGAGAGCGGCGGACGGGTGAGTAAATGCGCTAGGAATCTGCTCGTACTGCGGGATACGCT	134
Db	61	AATTACGCGCGGACGGGTGAGTAAATGCGCTAGGAATCTGCTCGTACTGCGGGACAAACGT	120
QY	135	TGCGAATCCGACGCTTAATACCGGATACGTCCTACGGGAGAAAACAGGGGACCTTTCGGGCC	194
Db	121	CTCGAAAGGGAGCGCTAATACCGCATACGTCCTACGGGAGAAAACAGGGGACCTTTCGGGCC	180
QY	195	TTGCGCTATCAGATGAGCCTTAGTCCGATTAGCTAGTTGGTAGGTAATGGCTACACAAG	254
Db	181	TTGCGCTATCAGATGAGCCTTAGTCCGATTAGCTAGTTGGTAGGTAATGGCTACACAAG	240
QY	255	GGGACGATCCGTAACCTGGTCTCAGAGGATGATCAGTCACACTGGAACTCAGACACGCGTCC	314
Db	241	GGGACGATCCGTAACCTGGTCTCAGAGGATGATCAGTCACACTGGAACTCAGACACGCGTCC	300
QY	315	AGACTTCCTACGGAGGCGACGAGTGGGGATATTTGGACATGGCGGAAACGCTGATCCAGC	374
Db	301	AGACTTCCTACGGAGGCGACGAGTGGGGATATTTGGACATGGCGGAAACGCTGATCCAGC	360
QY	375	CATGCCGGTGTGTGAAGAAGGCTTCGGAATGTAAGCACATTTAAGTTGGGAGGAGGG	434
Db	361	CATGCCGGTGTGTGAAGAAGGCTTCGGAATGTAAGCACATTTAAGTTGGGAGGAGGG	420
QY	435	TTGTAGATTAATACCTCTCGAATTTTGAAGTACCGACAGAAATGAACACGGCTAACTCTG	494
Db	421	CATTAACTTAATACGTTAGTGTTTTACGTTACCGACAGAAATGAACACGGCTAACTCTG	480
QY	495	TGCCAGACCGCGGTAAATACAGAGGTCGAAGCGTTAATCGGATTAATCTGGCGCTAAAG	554
Db	481	TGCCAGACCGCGGTAAATACAGAGGTCGAAGCGTTAATCGGATTAATCTGGCGCTAAAG	540
QY	555	CGCGGTAGGTGGTTGTGTAAGTTGGATGTGAAATCCCGCGGCTCAAACCTGGAACTGCA	614
Db	541	CGCGGTAGGTGGTTGTGTAAGTTGGATGTGAAAGCCCGCGGCTCAAACCTGGAACTGCA	600
QY	615	TTCAAAACTGACTACATAGAGTATGTTAGAGGTGGTGAAATTTCTGTGTAGCGGTGAA	674
Db	601	TTCAAAACTGCAAGCTAGAGTATGTTAGAGGTGGTGAAATTTCTGTGTAGCGGTGAA	660
QY	675	ATCGTATAGATATAGGAAGGAACACCACTGGCGGAAGCGCACCACTGGACTAATACTGACA	734
Db	661	ATCGTATAGATATAGGAAGGAACACCACTGGCGGAAGCGCACCACTGGACTAATACTGACA	720
QY	735	CTGAGGTGCGAAGCGTGGGGAGCAACACAGATTAGATACCTGGTAGTCCACCGGTAA	794
Db	721	CTGAGGTGCGAAGCGTGGGGAGCAACACAGATTAGATACCTGGTAGTCCACCGGTAA	780
QY	795	ACGATGTCAACTAGCCGTTGGAAGCCTTGAGCTTTTAGTGGCGCAGCTAACGATTAAGT	854
Db	781	ACGATGTCAACTAGCCGTTGGAAGCCTTGAGCTTTTAGTGGCGCAGCTAACGATTAAGT	840
QY	855	TGACCGCTGGGAGTACGCGCCGAAGGTTAAAACTCAATGTAATGACCGGGGCGCGCA	914
Db	841	TGACCGCTGGGAGTACGCGCCGAAGGTTAAAACTCAATGTAATGACCGGGGCGCGCA	900
QY	915	CAAGCGTGGAGCATGTGTTTAAATTCGAGCAACCGGAAGAACCTTACACAGCGCTTGAC	974
Db	901	CAAGCGTGGAGCATGTGTTTAAATTCGAGCAACCGGAAGAACCTTACACAGCGCTTGAC	960
QY	975	ATCCAAATGAACCTTTCAGAGATAGATTGGTGCCTTCGGGAAACATTCGAGACAGTGTGCA	1034
Db	961	ATCCAAATGAACCTTTCAGAGATAGATTGGTGCCTTCGGGAAACATTCGAGACAGTGTGCA	1020
QY	1035	TGGCTGTCTCAGCTCGTGTGTGGAATGTAAAG	1068
Db	1021	TGGCTGTCTCAGCTCGTGTGTGGAATGTGGA	1054

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Job time : 547.047 secs

us-09-737-297-2.sep04.rnpb

Mon Sep 27 07:47:17 2004

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 24, 2004, 19:51:40 ; Search time 71 Seconds  
(without alignments)  
72.464 Million cell updates/sec

Title: US-09-737-297-3

Perfect score: 79

Sequence: 1 AEGSTXDYVQNIQYAG 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1349238 seqs, 321558718 residues

Total number of hits satisfying chosen parameters: 1349238

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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2: /cgn2\_6/ptodata/1/pubaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubaa/US07\_NEW\_PUB.pep.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	77	97.5	16	9 US-09-737-297-3	Sequence 3, Appli
2	43	54.4	380	15 US-10-369-493-18356	Sequence 18356, A
3	41	51.9	191	14 US-10-307-441-11	Sequence 11, Appl
4	41	51.9	583	14 US-10-289-757-79	Sequence 79, Appl
5	40	50.6	456	9 US-09-815-242-10870	Sequence 10870, A
6	40	50.6	716	9 US-09-845-157-2	Sequence 2, Appli
7	40	50.6	724	15 US-10-369-493-5134	Sequence 5134, Ap
8	39	49.4	440	15 US-10-369-493-8931	Sequence 8931, Ap
9	39	49.4	623	12 US-10-282-122A-60382	Sequence 60382, A
10	38.5	48.7	813	9 US-09-764-898-197	Sequence 197, App
11	38	48.1	105	9 US-09-864-761-34387	Sequence 34387, A
12	38	48.1	234	12 US-10-425-114-64051	Sequence 64051, A
13	38	48.1	290	9 US-09-939-980-462	Sequence 462, App
14	38	48.1	313	14 US-10-213-990-72	Sequence 72, Appl
15	38	48.1	323	12 US-10-282-122A-54262	Sequence 54262, A

16	38	48.1	445	12	US-10-282-122A-57306	Sequence 57306, A
17	38	48.1	497	12	US-10-282-122A-43955	Sequence 43955, A
18	38	48.1	497	14	US-10-358-917-14	Sequence 14, Appl
19	37.5	47.5	70	16	US-10-716-029-240	Sequence 240, App
20	37.5	47.5	146	9	US-09-730-617-74	Sequence 74, Appl
21	37.5	47.5	149	9	US-09-730-617-68	Sequence 68, Appl
22	37.5	47.5	149	9	US-09-730-617-69	Sequence 69, Appl
23	37.5	47.5	149	9	US-09-730-617-70	Sequence 70, Appl
24	37.5	47.5	157	9	US-09-976-472-2	Sequence 2, Appli
25	37.5	47.5	157	12	US-10-072-012-647	Sequence 647, App
26	37.5	47.5	157	14	US-10-139-833-17	Sequence 17, Appl
27	37.5	47.5	157	14	US-10-139-947-2	Sequence 2, Appli
28	37.5	47.5	170	9	US-09-730-617-10	Sequence 10, Appl
29	37.5	47.5	170	9	US-09-730-617-77	Sequence 77, Appl
30	37	46.8	78	12	US-10-424-599-231473	Sequence 231473, A
31	37	46.8	96	12	US-10-282-122A-48490	Sequence 48490, A
32	37	46.8	189	14	US-10-307-441-12	Sequence 12, Appl
33	37	46.8	211	14	US-10-237-386-18	Sequence 18, Appl
34	37	46.8	211	14	US-10-237-386-19	Sequence 19, Appl
35	37	46.8	227	14	US-10-237-386-55	Sequence 55, Appl
36	37	46.8	240	14	US-10-237-386-38	Sequence 38, Appl
37	37	46.8	242	14	US-10-237-386-41	Sequence 41, Appl
38	37	46.8	301	9	US-09-738-626-6650	Sequence 6650, Ap
39	37	46.8	365	15	US-10-389-762-371	Sequence 371, App
40	37	46.8	423	15	US-10-369-493-23238	Sequence 23238, A
41	37	46.8	424	15	US-10-369-493-16517	Sequence 16517, A
42	37	46.8	430	12	US-10-282-122A-46780	Sequence 46780, A
43	37	46.8	447	15	US-10-312-273-241	Sequence 241, App
44	37	46.8	558	16	US-10-437-963-198128	Sequence 198128, A
45	37	46.8	583	14	US-10-289-757-83	Sequence 83, Appl

## ALIGNMENTS

## RESULT 1

US-09-737-297-3

; Sequence 3, Application US/09737297

; Patent No. US20020072108A1

; GENERAL INFORMATION:

; APPLICANT: Berry, Mark

; APPLICANT: Griffiths, Allen

; APPLICANT: Hill, Philip

; APPLICANT: Laybourne-Parry, Johanna

; APPLICANT: Mills, Sarah

; TITLE OF INVENTION: Processes and Organisms for the Production of Antifreeze Proteins

; FILE REFERENCE: F3247

; CURRENT APPLICATION NUMBER: US/09/737,297

; CURRENT FILING DATE: 2000-12-15

; PRIOR APPLICATION NUMBER: GB 9929696.4

; PRIOR FILING DATE: 1999-12-15

; NUMBER OF SEQ ID NOS: 5

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 3

; LENGTH: 16

; TYPE: PRT

; ORGANISM: Marinomonas protea

; FEATURE:

; NAME/KEY: VARIANT

; LOCATION: (6)..(6)

; OTHER INFORMATION: residue 6 is G or V

US-09-737-297-3

Query Match 97.5%; Score 77; DB 9; Length 16;  
Best Local Similarity 100.0%; Pred. No. 1.8e-06;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AEGSTXDYVQNIQYAG 16

Db 1 AEGSTXDYVQNIQYAG 16

## RESULT 2

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US-10-369-493-18356
; Sequence 18356, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianteng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 18356
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Lactococcus lactis
US-10-369-493-18356
Query Match 54.4%; Score 43; DB 15; Length 380;
Best Local Similarity 61.5%; Pred. No. 40;
Matches 8; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 EGTSDVYQNIQY 14
: : : : :
Db 100 EGTSHAVYQNIQY 112

RESULT 3
US-10-307-441-11
; Sequence 11, Application US/10307441
; Publication No. US20030166236A1
; GENERAL INFORMATION:
; APPLICANT: SUNG, Wing L.
; APPLICANT: National Research Council of Canada
; TITLE OF INVENTION: Modified Xylanases Exhibiting Increased Thermophilicity
; TITLE OF INVENTION: and Alkalophilicity
; FILE REFERENCE: 027367-5006US
; CURRENT APPLICATION NUMBER: US/10/307,441
; CURRENT FILING DATE: 2002-12-02
; PRIOR APPLICATION NUMBER: PCT/CA01/00769
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/213,803
; PRIOR FILING DATE: 2000-05-31
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 11
; LENGTH: 191
; TYPE: PRT
; ORGANISM: Streptomyces lividans
US-10-307-441-11
Query Match 51.9%; Score 41; DB 14; Length 191;
Best Local Similarity 42.9%; Pred. No. 42;
Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 AEGSTXDVYQNIQY 14
: : : : :
Db 107 SDGGTYDIYQTRY 120

RESULT 4
US-10-289-757-79
; Sequence 79, Application US/10289757
; Publication No. US20030180751A1
; GENERAL INFORMATION:
; APPLICANT: Demmer, Jeroen
; APPLICANT: Forster, Richard L
; APPLICANT: Gibson, John Bryan
US-10-369-493-18356
; Sequence 18356, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Shenk, Michael Andrew
; APPLICANT: No. US20030180751A1riss, Geoffrey
; APPLICANT: Glenn, Matthew
; APPLICANT: Saulsbury, Keith Martin
; APPLICANT: Hall, Claire
; TITLE OF INVENTION: Compositions isolated from forage
; TITLE OF INVENTION: grasses and methods for their use
; FILE REFERENCE: 11000.1061U
; CURRENT APPLICATION NUMBER: US/10/289,757
; CURRENT FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: 60/337,703
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 218
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 79
; LENGTH: 583
; TYPE: PRT
; ORGANISM: Lolium perenne
US-10-289-757-79
Query Match 51.9%; Score 41; DB 14; Length 583;
Best Local Similarity 53.8%; Pred. No. 1.4e+02;
Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 EGTSDVYQNIQY 14
: : : : :
Db 302 DNPTGDEVYQRLQY 314

RESULT 5
US-09-815-242-10870
; Sequence 10870, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10870
; LENGTH: 456
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-815-242-10870
Query Match 50.6%; Score 40; DB 9; Length 456;
Best Local Similarity 46.7%; Pred. No. 1.6e+02;
Matches 7; Conservative 2; Mismatches 6; Indels 0; Gaps 0;
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QY 2 EGSTXDVTQNIQYAG 16  
|||: |||: |  
Db 255 EGSFDDVYHKADFVG 269

## RESULT 6

US-09-845-157-2  
; Sequence 2, Application US/09845157  
; Patent No. US20020090618A1  
; GENERAL INFORMATION:  
; APPLICANT: Smith, J.  
; TITLE OF INVENTION: Thermostable Reverse Transcriptases and Uses Thereof  
; FILE REFERENCE: 0942:5040001  
; CURRENT APPLICATION NUMBER: US/09/845,157  
; CURRENT FILING DATE: 2001-05-01  
; PRIOR APPLICATION NUMBER: US 60//207,196  
; PRIOR FILING DATE: 2000-05-26  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2  
; LENGTH: 716  
; TYPE: PRT  
; ORGANISM: M-MLV reverse transcriptase gene  
US-09-845-157-2

Query Match 50.6%; Score 40; DB 9; Length 716;  
Best Local Similarity 53.3%; Pred. No. 2.6e+02;  
Matches 8; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 AEGSTXDVTQNIQYA 15  
|||: |||: |  
Db 606 AEGKLNVTNSRYA 620

## RESULT 7

US-10-369-493-5134  
; Sequence 5134, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILE REFERENCE: 38-10(52052)B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 5134  
; LENGTH: 724  
; TYPE: PRT  
; ORGANISM: Caenorhabditis elegans  
US-10-369-493-5134

Query Match 50.6%; Score 40; DB 15; Length 724;  
Best Local Similarity 66.7%; Pred. No. 2.6e+02;  
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 AEGSTXDVTQNI 12  
|||: |||: |  
Db 230 AEGSTSDVLTQL 241

## RESULT 8

US-10-369-493-8931  
; Sequence 8931, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei

; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILE REFERENCE: 38-10(52052)B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 8931  
; LENGTH: 440  
; TYPE: PRT  
; ORGANISM: Chloroflexus aurantiacus  
US-10-369-493-8931

Query Match 49.4%; Score 39; DB 15; Length 440;  
Best Local Similarity 53.8%; Pred. No. 2.3e+02;  
Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 4 STXDVTQNIQYAG 16  
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Db 143 NTEDVTGIEYRG 155

## RESULT 9

US-10-282-122A-60382  
; Sequence 60382, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16

; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 60382  
; LENGTH: 623

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; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-10-282-122A-60382

Query Match      49.4%; Score 39; DB 12; Length 623;
Best Local Similarity 50.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 2 EGSTXDYVQNIQ 13
   :||| :| :|
Db 59 DGSTTDYVERLQ 70

RESULT 10
US-09-764-898-197
; Sequence 197, Application US/09764898
; Patent No. US20020090673A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PJ201
; CURRENT APPLICATION NUMBER: US/09/764,898
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 311
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 197
; LENGTH: 813
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-898-197

Query Match      48.7%; Score 38.5; DB 9; Length 813;
Best Local Similarity 47.1%; Pred. No. 5.4e+02;
Matches 8; Conservative 4; Mismatches 4; Indels 1; Gaps 1;

Qy 1 AEG-STXDYVQNIQVAG 16
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Db 103 AKGRKVADLYELVQVAG 119

RESULT 11
US-09-864-761-34387
; Sequence 34387, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeonica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
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; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 34387
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC007869.1
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 5.6
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 5.8
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2.8
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.9
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.9
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 3.8
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.6
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.8
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2
; OTHER INFORMATION: EST_HUMAN HIT: BE086814.1, EVALUE 2.00e-36
; OTHER INFORMATION: SWISSPROT HIT: P21414, EVALUE 2.00e-27
US-09-864-761-34387

Query Match      48.1%; Score 38; DB 9; Length 105;
Best Local Similarity 46.7%; Pred. No. 74;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 1 AEGSTXDYVQNIQYA 15
   :||| :| :|
Db 41 SEGKTVNTYTDQYA 55

RESULT 12
US-10-425-114-64051
; Sequence 64051, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 64051
; LENGTH: 234
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3279-175-Fl_FLI.pgp
US-10-425-114-64051
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Query Match 48.1%; Score 38; DB 12; Length 234;  
Best Local Similarity 75.0%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
QY 9 YONIQVAG 16  
DB 188 FQNLQVAG 195

RESULT 13  
US-09-939-980-462  
; Sequence 462, Application US/09939980  
; Patent No. US2002008234A1  
; GENERAL INFORMATION:  
; APPLICANT: Black, Michael  
; Burnham, Martin  
; Hodgson, John  
; Knowles, David  
; Lonetto, Michael  
; Nicholas, Richard  
; Pratt, Julie  
; Reichard, Richard  
; Rosenberg, Martin  
; Ward, Judith  
; TITLE OF INVENTION: No. US2002008234A1el Prokaryotic Polynucleotides,  
; Polypeptides and Their Uses  
; NUMBER OF SEQUENCES: 534  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SmithKline Beecham Corporation  
; STREET: 709 Swedeland Road  
; CITY: King of Prussia  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19406-0939  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/939,980  
; FILING DATE: 27-Aug-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/936,165  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Gimmi, Edward R.  
; REGISTRATION NUMBER: 38,891  
; REFERENCE/DOCKET NUMBER: P50549  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 610-270-4478  
; TELEFAX: 610-270-5090  
; TELEX: <Unknown>  
; INFORMATION FOR SEQ ID NO: 462:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 290 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Protein  
; SEQUENCE DESCRIPTION: SEQ ID NO: 462:

Query Match 48.1%; Score 38; DB 9; Length 290;  
Best Local Similarity 40.0%; Pred. No. 2.2e+02;  
Matches 6; Conservative 5; Mismatches 4; Indels 0; Gaps 0;  
QY 2 EGSTXDYVYQNIQVAG 16  
DB 82 DGTIDLYEGIKETG 96

RESULT 14  
US-10-213-990-72  
; Sequence 72, Application US/10213990  
; Publication No. US20030082595A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Bo  
; APPLICANT: Bussey, Howard  
; APPLICANT: Storms, Reg  
; APPLICANT: Roemer, Terry  
; TITLE OF INVENTION: NUCLEIC ACIDS OF ASPERGILLUS FUMIGATUS ENCODING INDUSTRIAL  
; FILE REFERENCE: 10182-019-999  
; CURRENT APPLICATION NUMBER: US/10/213,990  
; CURRENT FILING DATE: 2002-08-05  
; NUMBER OF SEQ ID NOS: 72  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 72  
; LENGTH: 313  
; TYPE: PRT  
; ORGANISM: Aspergillus  
; US-10-213-990-72

Query Match 48.1%; Score 38; DB 14; Length 313;  
Best Local Similarity 46.2%; Pred. No. 2.4e+02;  
Matches 6; Conservative 5; Mismatches 2; Indels 0; Gaps 0;  
QY 1 AEGSTXDYVYQNIQ 13  
DB 143 SDGSTDYIEHQ 155

RESULT 15  
US-10-282-122A-54262  
; Sequence 54262, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsep, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16

Mon Sep 27 07:47:19 2004

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 78614  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 54262  
 ; LENGTH: 323  
 ; TYPE: PRT  
 ; ORGANISM: Campylobacter jejuni  
 US-10-282-122A-54262

Query Match 48.1%; Score 38; DB 12; Length 323;  
 Best Local Similarity 56.2%; Pred. No. 2.5e+02;  
 Matches 9; Conservative 2; Mismatches 3; Indels 2; Gaps 1;

Qy 1 AEGSTXDYVQNIQYAG 16  
 |||: ||| |:  
 Db 277 AEGAAIDVY--IRYLG 290

Search completed: September 24, 2004, 23:14:18  
 Job time : 72 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 24, 2004, 19:48:36 ; Search time 21 Seconds  
(without alignments)  
39.334 Million cell updates/sec

Title: US-09-737-297-3

Perfect score: 79

Sequence: 1 AEGSTXDYVNIQYAG 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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1	41	51.9	191	1	US-08-044-621D-35
2	41	51.9	191	1	US-08-709-912-11
3	41	51.9	191	2	US-09-047-370-11
4	41	51.9	216	1	US-08-315-695-20
5	41	51.9	240	4	US-09-570-856B-16
6	39	49.4	201	4	US-09-311-311C-21
7	39	49.4	313	4	US-09-551-826D-14
8	39	49.4	1260	4	US-09-328-352-6746
9	38.5	48.7	796	3	US-09-005-180A-1
10	38	48.1	200	1	US-07-744-570B-2
11	38	48.1	230	4	US-08-936-165A-462
12	38	48.1	291	4	US-09-252-991A-20970
13	38	48.1	365	4	US-09-328-352-7027
14	38	48.1	455	4	US-09-134-000C-4582
15	38	48.1	927	4	US-09-107-532A-4335
16	37	46.8	79	4	US-09-543-681A-6239
17	37	46.8	104	1	US-07-978-692-4
18	37	46.8	189	1	US-08-044-621D-33
19	37	46.8	189	1	US-08-709-912-11
20	37	46.8	189	2	US-09-047-370-12
21	37	46.8	200	3	US-08-275-526C-24
22	37	46.8	200	4	US-09-076-677-24
23	37	46.8	200	4	US-09-073-055-24
24	37	46.8	211	1	US-08-575-964-1
25	37	46.8	211	2	US-08-963-500-1
26	37	46.8	227	3	US-08-275-526C-31
27	37	46.8	227	4	US-09-076-677-31

28 37 46.8 227 4 US-09-073-055-31 Sequence 31, Appl  
29 37 46.8 365 4 US-09-198-452A-371 Sequence 371, Appl  
30 37 46.8 728 4 US-09-711-164-300 Sequence 300, Appl  
31 36 45.6 121 4 US-09-134-000C-4431 Sequence 4431, Ap  
32 36 45.6 185 4 US-09-570-856B-11 Sequence 11, Appl  
33 36 45.6 185 4 US-09-570-856B-12 Sequence 12, Appl  
34 36 45.6 189 1 US-08-709-912-13 Sequence 13, Appl  
35 36 45.6 189 2 US-09-134-000C-4081 Sequence 4081, Ap  
36 36 45.6 431 4 US-09-328-352-7392 Sequence 7392, Ap  
37 36 45.6 431 2 US-08-870-827-3 Sequence 3, Appl  
38 36 45.6 455 2 US-09-317-179-3 Sequence 3, Appl  
39 36 45.6 455 4 US-09-489-039A-10179 Sequence 10179, A  
40 36 45.6 863 4 US-08-840-062-5 Sequence 5, Appl  
41 36 45.6 1455 3 US-09-976-594-168 Sequence 168, Appl  
42 36 45.6 1456 4 US-08-323-170B-2 Sequence 2, Appl  
43 36 45.6 3135 1 US-08-954-441-2 Sequence 2, Appl  
44 36 45.6 3135 4 US-09-252-991A-28763 Sequence 28763, A  
45 35 44.3 98 4

## ALIGNMENTS

RESULT 1  
US-08-044-621D-35  
; Sequence 35, Application US/08044621D  
; Patent No. 5405769  
; GENERAL INFORMATION:  
; APPLICANT: Warren W. Wakarchuk  
; APPLICANT: Wing L. Sung  
; APPLICANT: Makoto Yaguchi  
; APPLICANT: Robert L. Campbell  
; APPLICANT: David R. Rose  
; TITLE OF INVENTION: CONSTRUCTION OF THERMOSTABLE MUTANTS  
; TITLE OF INVENTION: OF A LOW MOLECULAR MASS XYLANASE  
; NUMBER OF SEQUENCES: 37  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Gowling, Strathy & Henderson  
; STREET: Suite 2600, 160 Elgin Street  
; CITY: Ottawa  
; STATE: Ontario  
; COUNTRY: Canada  
; ZIP: K1P 1C3  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 5.25 in., 360kB storage  
; COMPUTER: IBM PC  
; OPERATING SYSTEM: PC-DOS  
; SOFTWARE: WordPerfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/044,621D  
; FILING DATE: April 8, 1993  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Judy A. Erratt  
; REGISTRATION NUMBER: 34,076  
; REFERENCE/DOCKET NUMBER: 08-863796  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 613-786-0199  
; TELEFAX: 613-563-9869  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 35:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 191  
; TYPE: Amino Acid  
; STRANDEDNESS: No. 5405769 Relevant  
; TOPOLOGY: linear  
; MOLECULE TYPE:  
; DESCRIPTION: protein  
; HYPOTHEICAL: NO  
; ANTI-SENSE: No

Mon Sep 27 07:47:18 2004

us-09-737-297-3.sep04.ra1

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;
; FRAGMENT TYPE: NO
; ORIGINAL SOURCE:
; ORGANISM: Streptomyces lividans
; STRAIN: Streptomyces lividans, Xln C
; IMMEDIATE SOURCE:
; POSITION IN GENOME:
; FEATURE:
; PUBLICATION INFORMATION:
; AUTHORS: Shareck, F., Roy, C., Yaguchi, M.,
; AUTHORS: Morosoli, R. & Kluepfel, D.
; TITLE:
; JOURNAL: Gene
; VOLUME: 107
; ISSUE:
; PAGES: 75-82
; DATE: 1991
; DOCUMENT NUMBER:
; FILING DATE:
; PUBLICATION DATE:
; RELEVANT RESIDUES IN SEQ ID NO:
;
US-08-044-621D-35

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Query Match 51.9%; Score 41; DB 1; Length 191;
Best Local Similarity 42.9%; Pred. No. 4.9;
Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

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QY 1 AEGSTXDYVQNIQY 14
Db 107 SDGTYDIYQTRY 120

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RESULT 2
US-08-709-912-11
; Sequence 11, Application US/08709912
; Patent No. 5759840
; GENERAL INFORMATION:
; APPLICANT: Sung Dr., Wing L
; APPLICANT: Yaguchi Dr., Makoto
; APPLICANT: Ishikawa Dr., Kazuhiko
; TITLE OF INVENTION: Modification of Xylanase to Improve
; TITLE OF INVENTION: Thermophilicity, Alkalophilicity and
; TITLE OF INVENTION: Thermostability
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fitzpatrick, Cella, Harper, and Scinto
; STREET: 277 Park Ave.
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10172-0194
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/709,912
; FILING DATE: 09-SEP-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Olsen Mr. Warren E
; REGISTRATION NUMBER: 27290
; REFERENCE/DOCKET NUMBER: 1039.2000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-2982
; TELEFAX: (212) 758-2982
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein

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; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: Internal
; ORIGINAL SOURCE:
; ORGANISM: Streptomyces lividans
; STRAIN: Xln C
; PUBLICATION INFORMATION:
; AUTHORS: Shareck, F
; AUTHORS: Roy, C
; AUTHORS: Yaguchi, M
; AUTHORS: Morosoli, R
; AUTHORS: Kluepfel, D
; JOURNAL: Gene
; VOLUME: 107
; PAGES: 75-82
; DATE: 1991
;
US-08-709-912-11

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Query Match 51.9%; Score 41; DB 1; Length 191;
Best Local Similarity 42.9%; Pred. No. 4.9;
Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

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QY 1 AEGSTXDYVQNIQY 14
Db 107 SDGTYDIYQTRY 120

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RESULT 3
US-09-047-370-11
; Sequence 11, Application US/09047370
; Patent No. 5866408
; GENERAL INFORMATION:
; APPLICANT: Sung Dr., Wing L
; APPLICANT: Yaguchi Dr., Makoto
; APPLICANT: Ishikawa Dr., Kazuhiko
; TITLE OF INVENTION: Modification of Xylanase to Improve
; TITLE OF INVENTION: Thermophilicity, Alkalophilicity and
; TITLE OF INVENTION: Thermostability
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fitzpatrick, Cella, Harper, and Scinto
; STREET: 277 Park Ave.
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10172-0194
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/047,370
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/709,912
; FILING DATE: 09-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Olsen Mr. Warren E
; REGISTRATION NUMBER: 27290
; REFERENCE/DOCKET NUMBER: 1039.2000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-2400
; TELEFAX: (212) 758-2982
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO

```

```
/
/
/ ANTI-SENSE: NO
/ FRAGMENT TYPE: internal
/ ORIGINAL SOURCE:
/ ORGANISM: Streptomyces lividans
/ STRAIN: Xln C
/ PUBLICATION INFORMATION:
/ AUTHORS: Shareck, F
/ AUTHORS: Roy, C
/ AUTHORS: Yaguchi, M
/ AUTHORS: Morosoli, R
/ AUTHORS: Kluepfel, D
/ JOURNAL: Gene
/ VOLUME: 107
/ PAGES: 75-82
/ DATE: 1991
/ US-09-047-370-11

Query Match 51.9%; Score 41; DB 2; Length 191;
Best Local Similarity 42.9%; Pred. No. 4.9;
Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 AEGSTXDYVYQNIQY 14
Db 107 SDGGTYDIYQTRY 120

RESULT 4
US-08-315-695-20
; Sequence 20, Application US/08315695
; Patent No. 5591619
; GENERAL INFORMATION:
; APPLICANT: Li, Kin-Liang
; APPLICANT: Ljungdahl, Lars G.
; TITLE OF INVENTION: Aureobasidium Pullulans Xylanase, Gene
; TITLE OF INVENTION: and Signal Sequence
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee and Winner, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: CO
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/315,695
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Winner, Ellen P.
; REGISTRATION NUMBER: 28,547
; REFERENCE/DOCKET NUMBER: 55-94
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 216 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; US-08-315-695-20

Query Match 51.9%; Score 41; DB 1; Length 216;
Best Local Similarity 42.9%; Pred. No. 5.6;

/
/
/ MATHS: 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 AEGSTXDYVYQNIQY 14
Db 133 SDGGTYDIYQTRY 146

RESULT 5
US-09-570-856B-16
; Sequence 16, Application US/09570856B
; Patent No. 6682923
; GENERAL INFORMATION:
; APPLICANT: Bentzien, Joerg M
; APPLICANT: Dahiyat, Bassil I
; TITLE OF INVENTION: NOVEL THERMOSTABLE ALKALIPHILIC XYLANASE
; FILE REFERENCE: A-67478-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/570,856B
; CURRENT FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: US 60/133,714
; PRIOR FILING DATE: 1999-05-12
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Streptomyces lividans
; US-09-570-856B-16

Query Match 51.9%; Score 41; DB 4; Length 240;
Best Local Similarity 42.9%; Pred. No. 6.4;
Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 AEGSTXDYVYQNIQY 14
Db 156 SDGGTYDIYQTRY 169

RESULT 6
US-09-311-311C-21
; Sequence 21, Application US/09311311C
; Patent No. 6358738
; GENERAL INFORMATION:
; APPLICANT: Erikson, et al.
; TITLE OF INVENTION: POLO BOX THERAPEUTIC COMPOSITIONS,
; TITLE OF INVENTION: METHODS, AND USES THEREFOR
; FILE REFERENCE: 1874/117
; CURRENT APPLICATION NUMBER: US/09/311,311C
; CURRENT FILING DATE: 1999-05-13
; PRIOR APPLICATION NUMBER: US 60/085,296
; PRIOR FILING DATE: 1998-05-13
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 201
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (376)...(576)
; OTHER INFORMATION: Polo protein C-terminal portion
; US-09-311-311C-21

Query Match 49.4%; Score 39; DB 4; Length 201;
Best Local Similarity 53.8%; Pred. No. 12;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 3 GSTXDYVYQNIQYA 15
Db 176 GVSKDLYQKIRYA 188

RESULT 7
US-09-551-826D-14
```

```

; Sequence 14, Application US/09551826D
; Patent No. 6558939
; GENERAL INFORMATION:
; APPLICANT: No. 6558939regaard-Madsen, Mads
; APPLICANT: Ostergaard, Peter Rahbek
; APPLICANT: Christensen, Claus Bo Voge
; APPLICANT: Lassen, Soren Flensted
; TITLE OF INVENTION: No. 6558939el Ptoeases And Variants Thereof
; FILE REFERENCE: 5665.200-US
; CURRENT APPLICATION NUMBER: US/09/551.826D
; CURRENT FILING DATE: 2000-04-17
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 14
; LENGTH: 313
; TYPE: PRT
; ORGANISM: Bacillus subtilis IS75
US-09-551-826D-14

Query Match 49.4%; Score 39; DB 4; Length 313;
Best Local Similarity 70.0%; Pred. No. 21;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 5 TXDVYQNIQ 14
| | | | |
Db 300 TNDVNNIQ 309
| | | | |

RESULT 8
US-09-328-352-6746
; Sequence 6746, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6746
; LENGTH: 1260
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-6746

Query Match 49.4%; Score 39; DB 4; Length 1260;
Best Local Similarity 58.3%; Pred. No. 1.le+02;
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 2 EGSTXDYQNIQ 13
| | | | |
Db 1080 EGFTEVYQSLQ 1091
| | | | |

RESULT 9
US-09-005-180A-1
; Sequence 1, Application US/09005180A
; Patent No. 612446
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Corley, Neil C.
; APPLICANT: Shah, Puri
; TITLE OF INVENTION: HUMAN VPS35/MEM3-RELATED PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:

```

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; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/005.180A
; FILING DATE: Filed January 8, 1998
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0457 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 796 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: LUNGTUT08
; CLONE: 2641812
US-09-005-180A-1

Query Match 48.7%; Score 38.5; DB 3; Length 796;
Best Local Similarity 47.1%; Pred. No. 77;
Matches 8; Conservative 4; Mismatches 4; Indels 1; Gaps 1;

QY 1 ABG-STXDYVYQNIQ 16
| | | | |
Db 86 AKGRKVADLYELVQYAG 102
| | | | |

RESULT 10
US-07-744-570B-2
; Sequence 2, Application US/07744570B
; Patent No. 5202249
; GENERAL INFORMATION:
; APPLICANT: Kluepfel, D.
; APPLICANT: Morosoli, R.
; APPLICANT: Shareck, F.
; TITLE OF INVENTION: Xylanase for Biobleaching
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Michael J. Bradley
; STREET: 1200 South 47th Street
; CITY: Richmond
; STATE: California
; COUNTRY: United States
; ZIP: 94804-0023
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44Mb storage
; COMPUTER: IBM
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/744,570B
; FILING DATE: 19910813
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 200 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: Single strand
; TOPOLOGY: Circular
US-07-744-570B-2

```

Query Match 48.1%; Score 38; DB 1; Length 200;  
Best Local Similarity 35.7%; Pred. No. 19;  
Matches 5; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 1 AEGSTXDYQNIQY 14  
DB 116 SDGSTDYETRY 129

## RESULT 11

US-08-936-165A-462  
; Sequence 462, Application US/08936165A  
; Patent No. 6348582

## GENERAL INFORMATION:

APPLICANT: Black, Michael  
APPLICANT: Burnham, Martin  
APPLICANT: Hodgson, John  
APPLICANT: Knowles, David  
APPLICANT: Lonetto, Michael  
APPLICANT: Nicholas, Richard  
APPLICANT: Pratt, Julie  
APPLICANT: Reichard, Richard  
APPLICANT: Rosenberg, Martin  
APPLICANT: Ward, Judith  
TITLE OF INVENTION: No. 6348582el Prokaryotic Polynucleotides,  
TITLE OF INVENTION: Polypeptides and Their Uses  
NUMBER OF SEQUENCES: 534

## CORRESPONDENCE ADDRESS:

ADDRESSEE: SmithKline Beecham Corporation  
STREET: 709 Swedeland Road  
CITY: King of Prussia  
STATE: PA  
COUNTRY: USA

ZIP: 19406-0939

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/936.165A

FILING DATE: 24-SEP-1997

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/027,032

FILING DATE: 24-SEP-1996

ATTORNEY/AGENT INFORMATION:

NAME: Gimmi, Edward R

REGISTRATION NUMBER: 38,891

REFERENCE/DOCKET NUMBER: P50549

TELECOMMUNICATION INFORMATION:

TELEPHONE: 610-270-4478

TELEFAX: 610-270-5090

TELEX:

INFORMATION FOR SEQ ID NO: 462:

SEQUENCE CHARACTERISTICS:

LENGTH: 290 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: Protein

US-08-936-165A-462

Query Match 48.1%; Score 38; DB 4; Length 290;  
Best Local Similarity 40.0%; Pred. No. 29;  
Matches 6; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 2 EGSTXDYQNIQYAG 16  
DB 82 DGTITDLYEGIKETG 96

## RESULT 12

US-09-252-991A-20970  
; Sequence 20970, Application US/09252991A  
; Patent No. 6551795

## GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 20970  
LENGTH: 291  
TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-20970

Query Match 48.1%; Score 38; DB 4; Length 291;  
Best Local Similarity 46.7%; Pred. No. 29;  
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 AEGSTXDYQNIQYA 15  
DB 175 SEGSRQILQNVQA 189

## RESULT 13

US-09-328-352-7027  
; Sequence 7027, Application US/09328352  
; Patent No. 6562958

## GENERAL INFORMATION:

APPLICANT: Gary L. Breton et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: GTC99-03PA

CURRENT APPLICATION NUMBER: US/09/328,352

CURRENT FILING DATE: 1999-06-04

NUMBER OF SEQ ID NOS: 8252

SEQ ID NO 7027

LENGTH: 365

TYPE: PRT

ORGANISM: Acinetobacter baumannii

US-09-328-352-7027

Query Match 48.1%; Score 38; DB 4; Length 365;  
Best Local Similarity 46.2%; Pred. No. 38;  
Matches 6; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 2 EGSTXDYQNIQY 14  
DB 246 QGSTIDIFSNPQH 258

## RESULT 14

US-09-134-000C-4582  
; Sequence 4582, Application US/09134000C  
; Patent No. 6617156

## GENERAL INFORMATION:

APPLICANT: Lynn Doucette-Stamm et al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 032796-032

CURRENT APPLICATION NUMBER: US/09/134,000C

CURRENT FILING DATE: 1998-08-13

PRIOR APPLICATION NUMBER: US 60/055,778

PRIOR FILING DATE: 1997-08-15

NUMBER OF SEQ ID NOS: 6812

SOFTWARE: Patent in version 3.1

us-09-737-297-3.sep04.ra1

Search completed: September 24, 2004, 23:13:01  
Job time : 22 secs

Mon Sep 27 07:47:18 2004

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; SEQ ID NO 4582
; LENGTH: 455
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
; US-09-134-000C-4582

Query Match      48.1%; Score 38; DB 4; Length 455;
Best Local Similarity 70.0%; Pred. No. 50;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      4 STXDYVQNIQ 13
Db      207 SLEDYQNIQ 216

RESULT 15
US-09-107-532A-4335
; Sequence 4335, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 4335:
SEQUENCE CHARACTERISTICS:
LENGTH: 927 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...927
SEQUENCE DESCRIPTION: SEQ ID NO: 4335:

US-09-107-532A-4335
Query Match      48.1%; Score 38; DB 4; Length 927;
Best Local Similarity 70.0%; Pred. No. 1.2e+02;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      4 STXDYVQNIQ 13
Db      681 SLEDYQNIQ 690

```